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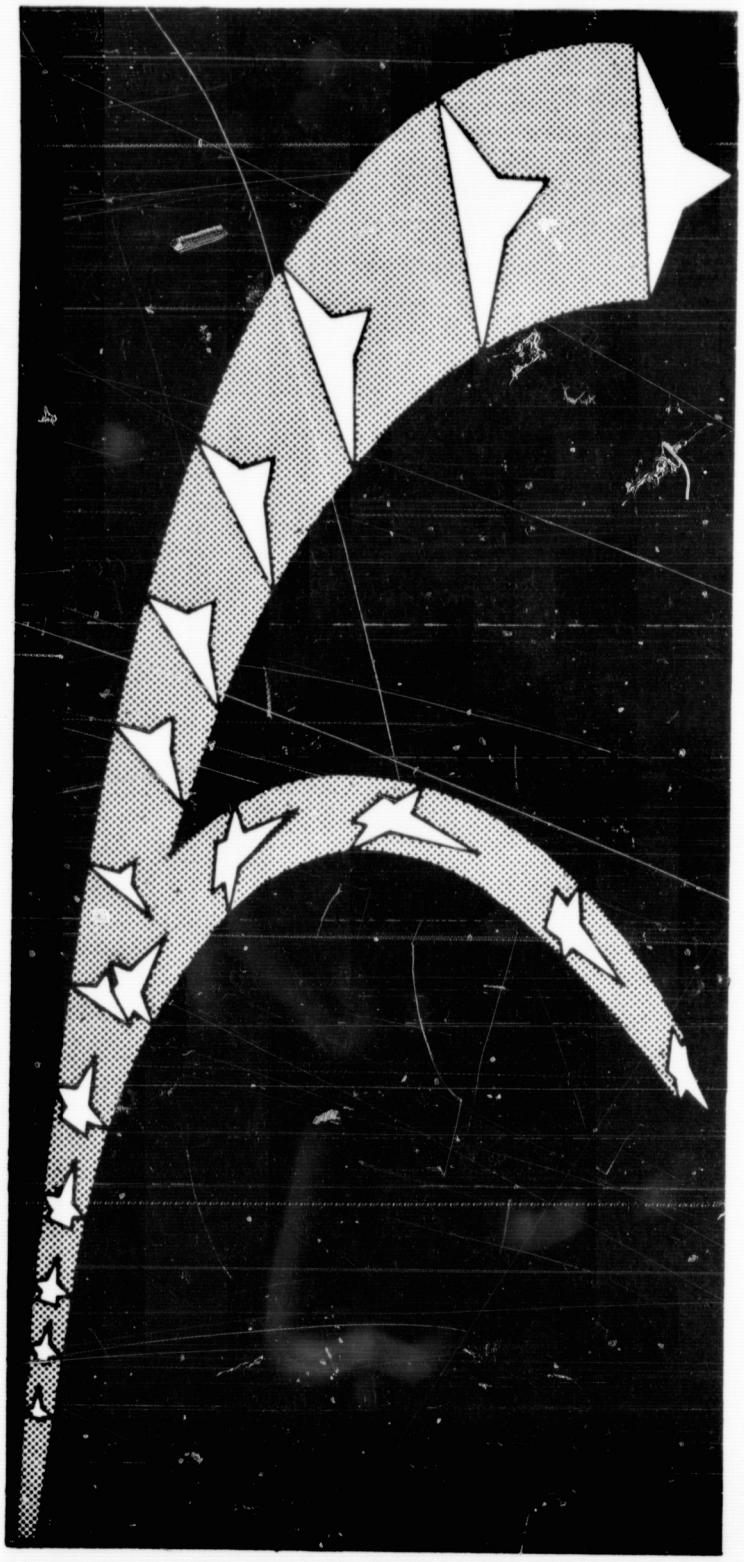

SPACE SHUTTLE

SUBSONIC LONGITUDINAL AND LATERAL-DIRECTIONAL STABILITY INVESTIGATION OF THE MDAC LCR ORBITER UNPOWERED AND POWERED

by

R. Mann
P. J. Seeney
J. E. Williams

MCAIR
LOW SPEED
WIND TUNNEL TEST RESULTS

DATA REPORT

SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
AMENDMENT 130
DRL 184-58
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION CHRYSLER CORPORATION

DMS-DR-1090
MAY, 1971

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: MDC STS Orbiter (01); Low Cross Range; 4% Scale

TEST PURPOSE: Longitudinal and Lateral Stability Investigation

TEST FACILITY: MDAC-ED MCAIR LSWT

TESTING AGENCY: MDAC-ED

TEST NO. & DATE: LSWT 237; Unpowered 8-15 Sept 1970
Powered 21-25 Sept 1970

TEST CONDUCTOR(S): R. Mann, P. J. Seeney, J. E. Williams

DATA MANAGEMENT SERVICES

LIAISON: J. S. Glyn
for G. McDonald

DATA OPERATIONS: W. R. Morgan

RELEASE APPROVAL: N. D. Kemp, Supervisor
Aero Thermo Data Group

ABSTRACT

The 4.0 percent model of the McDonnell-Douglas Low Cross-Range Orbiter (O_1) Shuttle was tested with both unpowered and powered engine nacelles. The unpowered model was tested 8 through 15 September 1970 and the powered model 21 through 25 September 1970. The test objectives were the determination of the low speed longitudinal and lateral aerodynamic characteristics and the jet effects on these characteristics. The test was conducted at a dynamic pressure of 101.5 psf corresponding to a Reynolds number of 1.75 million per foot. The angle-of-attack range was from -10 to +30 degrees and the angle of sideslip range was -6 to +10 degrees.

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SUMMARY

A 4.0 percent model of the McDonnell-Douglas Low Cross-Range Orbiter (O_1) Shuttle was tested September 8 through 15 and 21 through 25, 1970 to investigate the low speed longitudinal and lateral-directional aerodynamic characteristics and the jet effects on these characteristics. The test was conducted in two portions; one for the unpowered model and the second for the powered model. The test was conducted at a dynamic pressure of 101.5 psf, a Reynolds number of 1.75×10^6 per foot, an angle of attack range from -10° to 30° degrees and a sideslip range of -6° to 10°. For the powered portion of the test power ratio (P_e/P_o) setting of 3.4, 1.1, and off were set.

For the unpowered model tests were conducted for the body alone, body-wing, body-wing-vertical stabilizer, body-wing-horizontal stabilizer-vertical stabilizer. The effect of landing gear, nacelle, wing strut and reaction control pod were also evaluated. Control surface deflection for the ailerons, spoilers, elevator and horizontal tail were evaluated.

For the powered model the body-wing-horizontal stabilizer-vertical stabilizer-nacelle and the body-wing-vertical stabilizer-nacelle model were tested. The effect of horizontal tail deflection, elevator flap deflection and gear were evaluated at different engine power setting ratios.

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

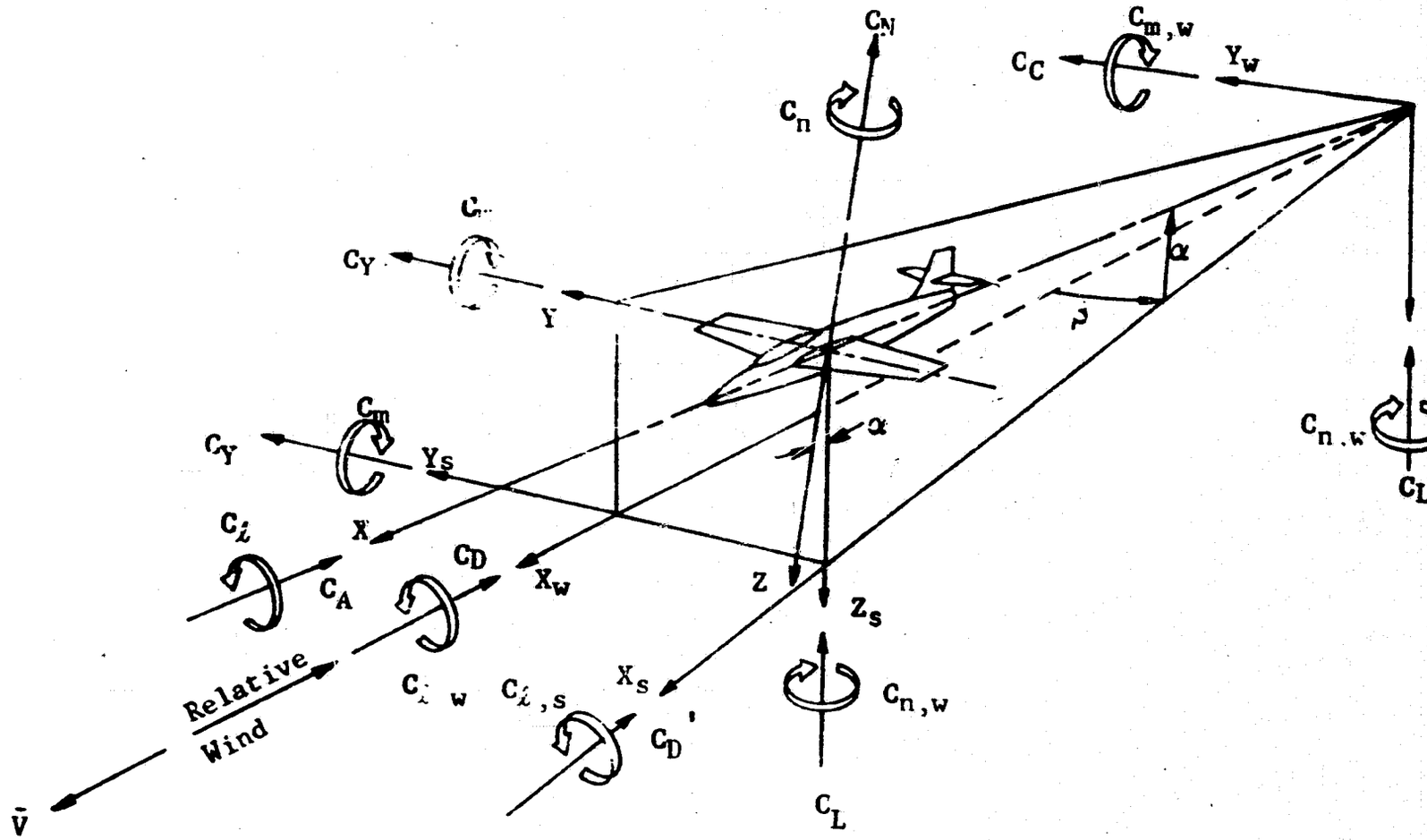

Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

TABLE I

COEFFICIENT	COEFFICIENT NAME	SADSAC NOMENCLATURE		
		BODY AXIS	STABILITY AXIS	WIND AXIS
C_A	Total Axial Force	CA	-	-
C_{AB}	Base Axial Force	CAB	--	-
C_{AF}	Forebody Axial Force	CAF	-	-
C_D	Total Drag Force	-	CD	CDTOTL
C_{DB}	Base Drag Force	-	CDB	CDBASE
C_{DF}	Forebody Drag Force	-	CDF	CDFORE
C_L	Lift Force	-	CL	CL
C_N	Normal Force	CN	-	-
C_Y	Side Force	CY	CY	CC
C_ℓ	Rolling Moment	CBL	CSL	CWL
C_m	Pitching Moment	CLM	CLM	CPM
C_n	Yawing Moment	CYN	CLN	CLN
L/D	Lift-To-Drag Force Ratio	-	L/D	CL/CD
L/D	Lift-To-Forebody Drag Force Ratio	-	L/DF	CL/CDF
N/A	Normal-To-Axial Force Ratio	N/A	-	-
N/A	Normal-To-Forebody Axial Force Ratio	CN/CAF	-	-

SUMMARY OF SADSAC NOMENCLATURE - AERODYNAMIC FORCE AND MOMENT COEFFICENTS

CONFIGURATIONS INVESTIGATED

CONFIGURATIONS

B_4

B_4W_1

B_4W_2

$B_3W_1V_1H_1$

$B_4W_1V_1H_1$

$B_4W_2V_1H_1F_2FB2G$

$B_3W_1V_1H_1J_1$

$B_4W_2V_1F_2G$

$B_4W_2V_1$

$B_4W_2V_1H_1$

$B_4W_2V_1H_1F_2$

$B_4W_2V_1H_1F_2G$

$B_4W_2V_1H_1P_3D_1$

$B_4W_2V_1H_1P_1D_2$

$B_4W_2V_1H_1P_2F_2G$

$B_4W_2V_1P_2$

$B_4W_2V_1H_1F_2G$

$B_4W_2V_1H_1F_2GSP2$

$B_4W_2V_1H_1SP2$

$B_4W_2V_1H_1SP3$

$B_4W_2V_1H_1SB1$

$B_4W_2V_1H_1SB2$

$B_4W_2V_1H_1N_1$

$B_4W_2V_1H_1N_1A_2$

$B_4W_2V_1H_1A_2$

$B_4W_2V_1H_1A_2N_2F_2G$

$B_4W_2V_1H_1P_3D_4$

$B_4W_2V_1H_1P_3D_3$

$B_4W_2V_1H_1P_4$

$B_4W_2V_1H_1P_4F_2G$

$B_4W_2V_1P_4$

$B_4W_2V_1H_1P_2$

Note:

All main components are considered to contain their controls in a non-deflected position, i.e., $W_2 = W_2 + A_2 + SP2 + F2$, etc. $G = G_1 + G_2$ For selected configurations, control surface deflections were made during the investigation. See pages 11 through 19, the dataset collation sheets, for a complete summary of test variables.

CONFIGURATIONS INVESTIGATED (Con't)

CONFIGURATION SYMBOLS

Symbol	Dwg. Ref.	Definition
A_1	STS-03331	Aileron on Wing (W_1)
A_2	STS-03343	Aileron on Wing (W_2)
B_3	STS-03327 STS-03328 STS-03344	Fuselage with slender nose and open wing cutout
B_4	STS-03344	Fuselage same as B_3 but with wing cut-out filled
D_1	STS-03336	Baffle for unpowered nacelles with 1/1 inlet to throat area ratio
D_2	STS-03336	Baffle for unpowered nacelles with 2/1 inlet to throat area ratio
D_3	STS-03336	Baffle for unpowered nacelles with 3/1 inlet to throat area ratio
D_4	STS-03336	Baffle for unpowered nacelles with zero flow
ER1	STS-03330	Elevator on horizontal tail (H_1)
F_1	STS-03332	Wing flap for wing (W_1)
F_2	STS-03343	Wing flap for wing (W_2)
FB1	STS-03332	10.40 inch span body flap on bottom of fuselage
FB2	-	5.5 inch span body flap on bottom of fuselage
G_1	STS-03334	Nose landing gear
G_2	STS-03334	Main landing gear
H_1	STS-03330	Horizontal tail

CONFIGURATION SYMBOLS (Continued)

Symbol	Dwg. Ref.	Definition
J_1	STS-03332	Wing strut for wing (W_1)
K_1	STS-03337	Pressure rake for flow through nacelles
K_2	STS-03337	Pressure survey rake for powered nacelles
N_1	-	Reaction control pod on tip of wing (W_2)
P_1	STS-03336 STS-03326	Unpowered flow-through nacelles located in aft, upper position
P_2	STS-03335 STS-03326	Powered nacelles located in aft, upper position
P_3	STS-03336 STS-03326	Unpowered flow-through nacelles located in forward, lower position
P_4	STS-03335 STS-03326	Powered nacelles located in forward, lower position
R_1	STS-03329	Rudder for vertical tail (V_1)
SB1	STS-03333	Fuselage speed brake at F.S. 53.00
SB2	STS-03333	Fuselage speed brake at F.S. 62.2
SP1	STS-03332	Spoiler on wing (W_1)
SP2	STS-03343	Spoiler on wing (W_2) extending to 76.2% semi-span
SP3	-	Spoiler (SP2) extended to wing tip
V_1	STS-03329	Vertical tail
W_1	STS-03331	Wing with Outer Panel at 8.75° dihedral
W_2	STS-03342	Symmetrical airfoil wing with 7° dihedral and 4° incidence

See pages 59 through 73, model component description sheets for a more detailed description of the above components.

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET

(UNPOWERED)

10/30/70

☐ PRETEST

☒ POSTTEST

IDPVAR (1)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_H	δ_E	δ_F	δ_{FB}	NO. of RUNS	ELEVTR 0			FLAP 0	FLAP 25	FLAP 45	FLAP, B 0	FLAP, B 45				
RCD000	B4	D	0					1	33											
01			5					1	34											
02		6	AA					1	35											
03		15						1	36											
01A	B4W1	D	0					1	28											
01B			5					1	29											
01C		6	AA					1	30											
01D		15						1	31											
010	B4W2	D	0					1	38											
11			5					1	39											
12		6	AA					1	40											
13		15						1	41											
070	B4W2H1V1F2FB1G	A	0	-5	0	45°		2							7	8				
080	B3W1V1H1J1	D	0					1	21											
04A	B3W1V1H1							1	22											
4B	B4W1V1H1							1	23											
4C			5					1	24											
4D		6	AA					1	25											
4E		15						1	26											
RCDA40	B4W2V1F2G	E	0	-	-			2						81	82					

1 7 13 19 25 31 37 43 49 55 61 67 75 76

C.L. . . . IC.D. . . . IC.L.M. . . IC.Y. . . . IC.L.N. . . IC.S.L. . . . KD.B. . . . . IELEVTRI

COEFFICIENTS:

α or β SCHEDULES

α: A = $-10^{\circ} \xrightarrow{\Delta 2} 30^{\circ}$; C = $-10^{\circ} \xrightarrow{\Delta 2} 20^{\circ}$; D = $-10 \xrightarrow{\Delta 2} 0 \xrightarrow{\Delta 1} 20$

E = $-10 \xrightarrow{\Delta 2} 0 \xrightarrow{\Delta 1} 12 \xrightarrow{\Delta 2} 20^{\circ}$; F = $-10 \xrightarrow{\Delta 2} 0 \xrightarrow{\Delta 1} 14 \xrightarrow{\Delta 2} 20^{\circ}$

G = $0 \xrightarrow{\Delta 2} 8 \xrightarrow{\Delta 1} 15, 17, 20$

β: AA = $-4 \xrightarrow{\Delta 2} 10^{\circ}$

→ IDPVAR(1) | IDPVAR(2) | NDV

FLAP

FLAP, B

11

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET

(UNPOWERED)

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_H	δ_E	δ_F	δ_{FB}	NO. of RUNS	ELEVTR -15	-10	-5	0	IDFVAR (1) HOR'Z' TAIL INCID (δ_H) -10	-5 (HTAIL)	0
RCD040	B4W2V1	D	0					1				43			
41			5					1				44			
42		6	AA					1				45			
43		12						1				46			
44		D	0					1				47			
A00	B4W2V1H1			−	0			3					51	49	50
01			5	-5				1				52			
02		6	AA					1				53			
03		12						1				54			
04		D	0					4	58	57	56	55			
05								1				95			
A10	B4W2V1H1F2	E	0			45		1				59			
11			5					1				60			
12		0	AA					1				61			
A20	B4W2V1H1F2G	E	0			45		4	67	69	68	62			
21			5					1				64			
22		0	AA					1				65			
23		6						1				66			
24		D	0			25		3		70	71	72			
RCDA 25			5	-5				1				73			

1 7 13 19 25 31 37 43 49 55 61 67 75 76

ELEVTRI

IDPVAR(1) | IDPVAR(2) | NDV

HTAIL

COEFFICIENTS:

α or β

SCHEDULES

12

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET

(UNPOWERED)

☐ PRETEST

☒ POSTTEST

IDPVAR (1)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_H	δ_E	δ_F	δ_{SB}	NO. of RUNS	ELEVTR -10	ELEVTR -5	ELEVTR 0	FLAP 0	FLAP 25	FLAP 45	SPOILR 30%	SPOILR 60%	SPOILR 60/60			
RCDA 26	B4W2V1H1F2G	0	AA	-5		25		1			74									
27		6						1			75									
28		E	0	-10		—		2					76	77						
29				0		—		2					79	78						
30		C		-5		45		1			83									
A50	B4W2V1H1F2GSP2	E						3							87	85	84			
51			5					1								86				
A60	B4W2V1H1SP2	D	0					3							88	89	92			
61			5					1								90				
65	SP3		0					1								91				
A90	B4W2V1H1SB1						60	1			93									
91	SB2							1			94									
							8A													
A25	B4W2V1H1N1	D	0	-5				1			96									
96	A2						20	1			98									
97	B4W2V1H1A2	F						1			97									
98	B4W2V1H1A2N1F2G					45		1			99									
A70	B4W2V1H1P3D4							1			101									
71			5					1			102									
RCDA 72	D3		0	-5				1			103									

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS: → IDPVAR(1) | IDPVAR(2) | NDV

α or β SCHEDULES

13

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET
(UNPOWERED)

☐ PRETEST
☒ POSTTEST

IDPVAR (1)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	CONTROL DEFLECTION δ_H	δ_F	δ_{FB}	NO. of RUNS	ELEVTR -10	-5	0
RCDA 73	B4We V1 H1 P3 D1	F	0	-5			1			104
74	D2						1			105
75			5				1			106
76		0	AA				1			107
77		6					1			108
78		F	0				1	110		
79	B4We V1 H1 P1 D2						1	112		
80							1	113		
81			5				1	114		
RCDA 82		6	AA	-5			1	115		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS:
α or β
SCHEDULES

ELEVTR
IDPVAR(1) | IDPVAR(2) | NDV

TEST McAIR LSWT237 DATA SET COLLATION SHEET
(UNPOWERED)

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	PARAMETERS/VALUES δH	δF	δR	δSF	NO. of RUNS	ELEVTR IDPVAR(1) -15	-10	-5	0
RCD902	B4W2V1H1F2G	E	0	0	25	0						79
03	↓	↓	↓	-10	↓	↓						76
04	↓	↓	↓	0	45	↓						78
05	↓	↓	↓	-10	↓	↓						77
06	B4W2V1H1	D	↓	-5	0	20						55
07	B4W2V1H1SP2	↓	↓	↓	0	0	60/60					92
08	B4W2V1H1F2GSP2	E	↓	↓	45	↓	↓					84
09	B4W2V1H1SP2	D	↓	↓	0	↓	30/0					88
10	↓	↓	↓	↓	↓	↓	60/0					89
11	B4W2V1H1SP3	↓	↓	↓	↓	↓	↓					91
12	B4W2V1H1F2GSP2	E	↓	↓	45	↓	30/0					87
13	↓	↓	↓	↓	↓	↓	60/0					85
14	B4W2V1H1SP2	D	5	↓	0	↓	60/0					90
15	B4W2V1H1F2GSP2	E	↓	↓	45	↓	↓					86

1 7 13 19 25 31 37 43 49 55 61 67 75 76

ELEVTR.

COEFFICIENTS:
α or β SCHEDULES

α: D = -10 Δ2 → 0 Δ1 → 20
E = -10 Δ2 → 0 Δ1 → 12 Δ2 → 20

IDPVAR(1) | IDPVAR(2) | NDV

15

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET
(POWERED)

☐ PRETEST
☒ POSTTEST

PAGE 1 OF 4

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MACH/IDPVAR (1) 0.26	NO. of RUNS	PARAMETER NAMES AND VALUES δ_H	δ_E	δ_F	PE/PØ	RHØB	RHIB
RCDB01	B4W2V1H1P4	C	0	121		-5	0	0	0.99	1	1
02		↓	0	123					1.1		
03			0	125					3.4		
04			5	126					0.99		
05			5	182					3.4		
06		↓	0	181					3.4		
07		0	AA	129					0.99		
08		0	AA	131					3.4		
09		6	AA	132					0.99	↓	
10		C	0	135					1.1	0	↓
11		C	0	136					1.1	1	0
12		6	AA	142					3.4	1	1
13		C	0	143					3.4	0	1
14		↓	5	144					3.4	0	1
15			0	145					3.4	1	0
16			5	146					3.4		0
17			0	160				↓	0.99		1
18			↓	158				-10	1.1		
19				159					3.4	↓	
20		↓		165					1.1	0	↓

16

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL ICD ICLM ICY ICLN CSL CDB

IDPVAR(1) | IDPVAR(2) | NDV

COEFFICIENTS:
α or β
SCHEDULES

α: C = -10° Δ2 → 20°

β: AA = -4° Δ2 → 10°

NASA-MSFC-MAF

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET
(POWERED)

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MACH/IDPVAR (1)	NO. of RUNS	PARAMETER NAMES AND VALUES δ_H	δ_E	δ_F	P_E/P_ϕ	RHΦB	RHIB
RCDB21	B4W2V1H1P4	C	0	166		-5	-10	0	3.4	0	1
22				168					1.1	1	0
23				167					3.4		0
24				173		0	0		0.99		1
25				172		0			3.4		
26				174		-10			0.99		
27				175		-10			3.4		
28	B4W2V1H1P4F2G			148		-5		45	0.99		
29				149					1.1		
30				150					3.4		
31				155			-10		0.99		
32				157					1.1		
33				156					3.4		
34	B4W2V1H1P2F2G			212			0		0.99		
35				213			0		3.4		
36				214			-10		0.99		
37				215					3.4		
38				220					3.4		
39	B4W2V1P4			180		—	—	0	0.99		
40				179		—	—	0	3.4		

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL | CD | CLM | CY | CLN | CSL | CDB

COEFFICIENTS:

α or β

SCHEDULES

IDPVAR(1) | IDPVAR(2) | NDV

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET
(POWERED)

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MACH/IDPVAR (1) 0.26	NO. of RUNS	PARAMETER NAMES AND VALUES δ_H	δ_E	δ_F	PE/PQ	RHΦB	RHTB
RCDB41	B4W2V1P2	C	0	238		—	—	0	0.99	1	1
42	↓			239		—	—		3.4		
43	B4W2V1H1P2			196		-5	0		0.99		
44				197					0.99		
45				198					1.1		
46			↓	199					3.4		
47			5	200					0.99		
48		↓	5	201					3.4		
49		6	AA	202					0.99		
50		6	AA	203					3.4	↓	
51		C	0	204					1.1	0	
52			0	205					3.4	0	
53			5	206					3.4	0	↓
54			5	207					3.4	1	0
55			0	209					1.1		0
56				208					3.4		0
57				221			↓		0.99		
58				222		-10			3.4	↓	
59				223					3.4	0	↓
60	↓	↓	↓	224		↓	↓	↓	3.4	1	0

18

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL ICD ICLM ICY ICLN ICSL ICDB

COEFFICIENTS:

α or β

SCHEDULES

IDPVAR(1) | IDPVAR(2) | NDV

NASA-MSFC-MAF

TEST MCAIR LSWT 237 DATA SET COLLATION SHEET
(POWERED)

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MACH/IDPVAR (1)	NO. of RUNS	PARAMETER NAMES AND VALUES δ_H	δ_E	δ_F	PE/PØ	RHØB	RHIB
RCDB61	B4W2V1H1P2	C	0	0.26							
62				229		-5	0	0	3.4	1	1
63				230		0			0.99		
64				231		0			3.4		
65				234		-10			0.99		
				235		-10			3.4		

19

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CL CD CLM CY CLN CSL CDB

COEFFICIENTS:

α or β

SCHEDULES

IDPVAR(1) | IDPVAR(2) | NDV

NASA-MSFC-MAF

TEST FACILITY DESCRIPTION

The McDonnell-Douglas Corp MCAIR Low Speed Wind Tunnel is a closed circuit, single return, atmospheric tunnel with a test section 8 1/2-feet high, 12-feet wide, and 18-feet long. It is capable of a maximum continuous velocity of 240 mph with a clear test section.

The tunnel circuit is 412.6-feet long and consists of two 164-foot legs and two 42.3-foot legs. The entrance cone contraction ratio is 7.35 to 1 and the total diffuser angle is 7.5°. Cooling is accomplished by a spray system passing water over the outside tunnel shell.

The main drive motor, housed in a nacelle 30 feet downstream of the third leg of the circuit, is a Westinghouse 1750 hp wound rotor motor equipped with a liquid rheostat for coarse rpm control and a dynamic brake, coupled to the motor shaft, for fine rpm control. The four-bladed fan is 20 feet in diameter.

TABLE II

TEST CONDITIONS
TEST MCAIR LSWT 237

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. ~~inch~~ FOOT)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.26	1.75×10^6	100	

BALANCE UTILIZED: PYRAMIDAL

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
LIFT ~~NF~~	± 3000 lbs.	± 3.0 lbs.	
SF	± 1500 lbs.	± 1.5 lbs.	
DRAG ~~AF~~	± 750 lbs.	± 0.75 lbs.	
PM	± 1500 ft-lbs.	± 1.5 ft-lbs.	
YM	± 750 ft-lbs	± 0.75 ft.lbs.	
RM	± 1500 ft-lbs.	± 1.5 ft.lbs.	

COMMENTS:

TEST CONDITIONS

The model was mounted in the tunnel on the pyramidal balance by means of a two-strut support system. Support system tare and interference was obtained for the unpowered segment of the test by installing the image support system and running with the model in both the upright and inverted positions.

For the powered portion of the test the engines were calibrated prior to the test and check calibrated again after installation in the tunnel. Air from the auxiliary air supply system was routed through four 3/4 inch flexible hoses inside the forward windshield to supply the engine thrust. The air supply hoses were located to minimize balance bridging effects. Jet tares were made with the tunnel air off and a curtain installed to prevent recirculation of the air.

The test section conditions were set at the desired dynamic pressure, the model was pitched or yawed through the respective angle program stopping at the specified attitude to record data.

DATA REDUCTION

Model loads recorded during the test were reduced to coefficient form in both the body and stability axes.

The balance data for the unpowered segment of the test were corrected for weight tare, aerodynamic tare and interference of the support system, wall effects including wake blockage and internal duct drag (where applicable). A base pressure correction was not applied to the data. However a base pressure correction is available for specific runs in the plotted data and for all runs in the tabulated data. The individual pressures of the base pressure correction are not available from SADSAC.

The balance data for the powered segment of the test were corrected for weight tare, wall effects and jet tares. The jet tares were taken for each significant model configuration and power setting which included balance bridging and jet thrust effects. A base pressure correction was not applied to the data. However, a base pressure correction is available for specific runs in the plotted data and for all runs in the tabulated data. The individual pressures for the base pressure corrections are not available from SADSAC.

Pressure ratios obtained during the pre-test engine calibration were averaged

to provide the power settings for the test. The power settings and respective pressures ratios were:

Power Setting	Pe/Po
Full	3.4
Intermediate	1.1
Off	Undefined

The dimensional data used to reduce the measured data to coefficient form were a function of the configuration tested; the dimensional data utilized to reduce the data from data set identifiers RCD01A, 01B, 01C, 01D, 080, 04A, 04B, 04C, 04D, 04E are listed and defined below:

S_{ref} = wing W1 planform area = 389.4 in.^{2}

l_{ref} = wing W1 mean aerodynamic chord = 8.03 in.

b_{ref} = wing W1 equivalent span = 52.2 in.

The dimensional data used to reduce the data for the remaining data set identifiers are listed and defined below:

S_{ref} = wing W2 planform area = 437.7 in.^{2}

l_{ref} = wing W2 mean aerodynamic chord = 8.51 in.

b_{ref} = wing W2 equivalent span = 53.38 in.

The moment reference point (MRP) applicable to all the moment coefficient test data is at fuselage station 37.94 inches model scale, on the model lateral centerline, and at a waterline of 12.0 in.

SUMMARY PLOT INDEX

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Data Repeatibility	U	A	Data Repeatibility, $B_4W_2V_1$	1-6
Data Repeatibility	U	A	Data Repeatibility, $B_4W_2V_1H_1$	7-12
Data Repeatibility	U	A	Data Repeatibility, Flaps 45^o	13-18
Basic Longitudinal Buildup	U	B	Model Buildup	19-22
Basic Lateral Directional Buildup	U	F	Model Buildup $\alpha = 6$	23-25
Basic Lateral Directional Buildup	U	F	Model Buildup $\alpha = 12$	26-28
Basic Lateral Directional Buildup	U	D	Body in Sideslip	29-31
Basic Lateral Directional Buildup	U	D	Wing-Body in Sideslip	32-34
Basic Lateral Directional Buildup	U	D	Wing-Body-Vertical Tail in Sideslip	35-37
Basic Lateral Directional Buildup	U	D	Wing-Body-Vert. Tail - Horiz. Tail in Sideslip	38-40
Basic Lateral Directional Buildup	U	E	Model Buildup	41-43

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Wing Flap Effects	U	B	Flap Variation, Gear Down	44-47
Wing Flap Effects	U	C	Flap Variation	48-52
Wing Flap Effects	U	F	Flap Variation, Gear Down	53-55
Wing Flap Effects	U	F	Flap Variation	56-58
Wing Flap Effects	U	D	Flap 25°, Gear Down	59-61
Wing Flap Effects	U	D	Flap 45°, Gear Down	62-64
Wing Flap Effects	U	E	Flap Variation	65-67
Landing Gear Effect	U	C	Gear	68-72
Landing Gear Effect	U	F	Gear	73-75
Landing Gear Effect	U	D	Beta	76-78
Landing Gear Effect	U	E	Gear	79-81
Stabilator Power - Clean Wing	U	A	Horizontal Stabilator	82-85
Stabilator Power - Clean Wing	U	G	Horizontal Stabilator	86-87
Stabilator Power, 25 Degree Flap Deflection	U	A	Horizontal Stabilator, 25° Flap	88-91

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Stabilator Power, 25 Degree Flap Deflection	U	G	Horizontal Stabilator, 25° Flaps	92-93
Stabilator Power, 45 Degree Flap Deflection	U	A	Horizontal Stabilator, 45° Flaps	94-97
Stabilator Power, 45 Degree Flap Deflection	U	G	Horizontal Stabilator, 45° Flaps	98-99
Elevator Power - Clean Wing	U	A	Elevator	100-103
Elevator Power - Clean Wing	U	H	Elevator	104-105
Elevator Power, 25 Degree Flap Deflection	U	A	Elevator, 25° Flaps	106-109
Elevator Power, 25 Degree Flap Deflection	U	H	Elevator, 25° Flaps	110-111
Elevator Power, 45 Degree Flap Deflection	U	A	Elevator, 45° Flaps	112-115
Elevator Power, 45 Degree Flap Deflection	U	H	Elevator, 45° Flaps	116-117
Rudder Power	U	D	Rudder	118-120
Rudder Power	U	I	Rudder	121-123
Spoiler Effectiveness As A Direct Lift Control Device - Clean Wing	U	J	Symmetrical Spoiler	124-131
Spoiler Effectiveness As A Direct Lift Control Device, 45 Degree Flap Deflection	U	J	Symmetrical Spoiler, 45° Flaps	132-139

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Spoiler Effectiveness As A Roll Control Device - Clean Wing	U	D	Left Spoiler Deflection	140-142
Spoiler Effectiveness As A Roll Control Device - Spoiler Extension To Full Span	U	D	Spoiler Comparison	143-145
Spoiler Effectiveness As A Roll Control Device, 45 Degree Flap Deflection	U	D	Left Spoiler Deflection, 45° Flaps	146-148
Spoiler Effect on Lateral Directional Aero Characteristics - Clean Wing	U	D	Spoiler In Sideslip	149-151
Spoiler Effect On Lateral Directional Aero Characteristics - Clean Wing	U	E	Spoiler Deflection	152-154
Spoiler Effect on Lateral Directional Aero Characteristics, 45 Deg. Flap	U	D	Spoiler In Sideslip, 45° Flaps	155-157
Spoiler Effect On Lateral Directional Aero Characteristics, 45 Deg. Flap	U	E	Spoiler Deflection, 45° Flaps	158-160
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Aileron Power - Clean Wing and RCS Pods On	U	D	Aileron Deflection	164-166
Aileron Power - Clean Wing - RCS Pods On and Off	U	K	RCS Pods	167-169
Aileron Power, 45 Degree Flap Deflection	U	F	Aileron Deflection	170-172

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Aileron Power, 45 Degree Flap Deflection	U	K	Aileron, 45° Flaps	173-175
RCS Pod Effect	U	J	RCS Pods	176-183
Body Flap Effect - Note: Data Must Be Used For Increments Only	U	C	Body Flap Deflection	184-188
Engine Pod Duct Choke Effect	U	C	Duct Choke	189-193
Engine Pod Duct Choke Effect	U	D	Duct Choke	194-196
Engine Pod Location Effect	U	C	Engine Pod Location	197-201
Engine Pod Location Effect	U	C	Engine Pod Location, Elevator = -10°	202-206
Engine Pod Location Effect	U	F	Engine Pod Location Variation, $\alpha = 6$	207-209
Engine Pod Location Effect	U	F	Engine Pod Location, Alpha Effect	210-212
Engine Pod Location Effect	U	D	Engine Pod P3, Beta Effect	213-215
Engine Pod Location Effect	U	D	Engine Pod P1, Beta Effect	216-218
Engine Pod Location Effect	U	E	Engine Pod Location Variation	219-221

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Speed Brake Effect	U	J	Speed Brake Variation	222-229
Wing Comparison	U	C	Wing Comparison	230-234
Wing Comparison	U	F	Wing Comparison	235-237
Wing Comparison	U	F	Empenage Effect	238-240
Wing Comparison	U	D	Beta Effect, Complete Model	241-243
Wing Comparison	U	D	Beta Effect, Wing Body	244-246
Wing Comparison	U	E	Wing Comparison	247-249
Wing Strut Effect	U	J	Wing Strut	250-257
Wing-Body Cavity Effect	U	J	Wing Cavity	258-265
Base Drag - Repeatability	U	M	Data Repeatability	266-266
Base Drag - Basic Buildup	U	M	Model Buildup	267-267
Base Drag - Effects of Yaw	U	M	Sideslip Effect	268-268
Base Drag - Flap Effect	U	M	Flap Deflection	269-269
Base Drag - Stabilator Effect	U	M	Horizontal Stabilator Deflection	270-270
Base Drag - Elevator Effect	U	M	Elevator Deflection	271-271
Base Drag - Engine Pod Effect	U	M	Engine Pod	272-272

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Base Drag - Speed Brake Effect	U	M	Speed Brake Variation	273-273
Elevator Power, Lower Engine Pod Position	P	N	Elevator Deflection and Engine Pressure Ratio	274-276
Stabilator Power, Lower Engine Pod Position	P	N	Horiz. Stab. Deflection and Engine Pressure Ratio	277-279
Engine Power, RH Outboard Engine Out, Lower Engine Pod Position	P	O	Elevator Deflection and Engine Pressure Ratio	280-285
Elevator Power, RH Inboard Engine Out, Lower Engine Pod Position	P	O	Elevator Deflection and Engine Pressure Ratio	286-291
Elevator Power, Landing Configuration (Gear Down), Lower Engine Pod Position	P	N	Elevator Deflection and Engine Pressure Ratio	292-294
Effect of 5 Degrees Sideslip, Lower Engine Pod Position	P	N	Engine Pressure Ratio	295-300
Sideslip Effect At Zero Alpha, Lower Engine Pod Position	P	P	Engine Pressure Ratio	301-306
Elevator Power, Upper Engine Pod Position	P	N	Elevator Deflection Engine Pressure Ratio	307-309
Stabilator Power, Upper Engine Pod Position	P	N	Horiz. Stab. Deflection and Engine Pressure Ratio	310-312

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Effect of RH Outboard Engine Out, Upper Engine Pod Position	P	O	Engine Pressure Ratio	313-318
Elevator Power, RH Outboard Engine Out, Upper Engine Pod Position	P	O	Elevator Deflection and Engine Pressure Ratio	319-324
Elevator Power, RH Inboard Engine Out, Upper Engine Pod Position	P	O	Elevator Deflection and Engine Pressure Ratio	325-330
Elevator Power, Landing Gear Down, Upper Engine Pod Position	P	N	Elevator Deflection and Engine Pressure Ratio	
Effect of 5 Degrees Sideslip, Upper Engine Position	P	O	Engine Pressure Ratio	334-339
Sideslip Effect At 6 Degrees Alpha, Upper Engine Pod Position	P	P	Engine Pressure Ratio	340-345
Effect of Horizontal Tail Incidence On Base Drag, Lower Engine Pod Position	P	M	Horiz. Stab. Deflection	346-346
Effect of Horizontal Tail Incidence On Base Drag, Lower Engine Pod Position	P	M	Horiz. Stab. Deflection	347-347
Effect of Horizontal Tail Incidence On Base Drag, Lower Engine Pod Position	P	M	Horiz. Stab. Deflection	348-348
Effect of Horizontal Tail Incidence On Base Drag, Upper Engine Pod Position	P	M	Horiz. Stab. Deflection	349-349

SUMMARY PLOT INDEX (Continued)

TITLE	TYPE MODEL	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PAGES
Effect of Horizontal Tail Incidence On Base Drag, Upper Engine Pod Position	P	M	Horiz. Stab. Deflection	350-350
Effect of Horizontal Tail Incidence On Base Drag, Upper Engine Pod Position	P	M	Horiz. Stab. Deflection	351-351
Effect of Flap and Elevator On Base Drag, Upper Engine Pod Position (Gear Down)	P	M	Elevator Deflection and Engine Pressure Ratio	352-352
Effect of Flap and Elevator On Base Drag, Lower Engine Pod Position (Gear Down)	P	M	Elevator Deflection, Flap Deflection and Engine Pressure Ratio	353-353
Effect of Flap and Elevator On Base Drag, Lower Engine Pod Position	P	M	Engine Pressure Ratio	354-354
Base Drag With Horizontal Tail Removed, Upper Pod Position	P	M	Engine Pressure Ratio	355-355
Base Drag With Horizontal Tail Removed, Lower Pod Position	P	M	Engine Pressure Ratio	356-356
Effect of 5 Degrees Sideslip, Upper Pod Position	P	M	Engine Pressure Ratio	357-357
Effect of 5 Degrees Sideslip, Upper and Lower Pod Position	P	M	Engine Pressure Ratio	358-358

PLOTTED COEFFICIENTS SCHEDULE

(A) CL, CLM, CY, CYN & CBL vs. α

CL vs. CD

(B) CL & CLM vs. α

CL vs. CD & CL vs. CLM

(C) CL, CLM & L/D vs. α

CL vs. CD & CL vs. CLM

(D) CY, CYN & CBL vs. α

(E) CYBETA, DCYNDB & DCBLDB vs. α

(F) CY, CYN & CBL vs. β

(G) DCLDIT & CLMIT vs. α

(H) DCL/DE & DCLMDE vs. α

(I) DCY/DR, DCYNDR & DCBLDR vs. α

(J) CL, CLM, L/D, CY, CYN & CBL vs. α

CL vs. CD & CL vs. CLM

(K) DCY/DA, DCYNDA & DCBLDA vs. α

(L) CL, CLM & L/D vs. α

(M) CDB vs. α

(N) CL, CLM, CD vs. α

(O) CL, CLM, CD, CY, CYN & CBL vs. α

(P) CY, CYN, CBL, CL, CLM & CD vs. β

MODEL TYPE

U ~ UNPOWERED

P ~ POWERED

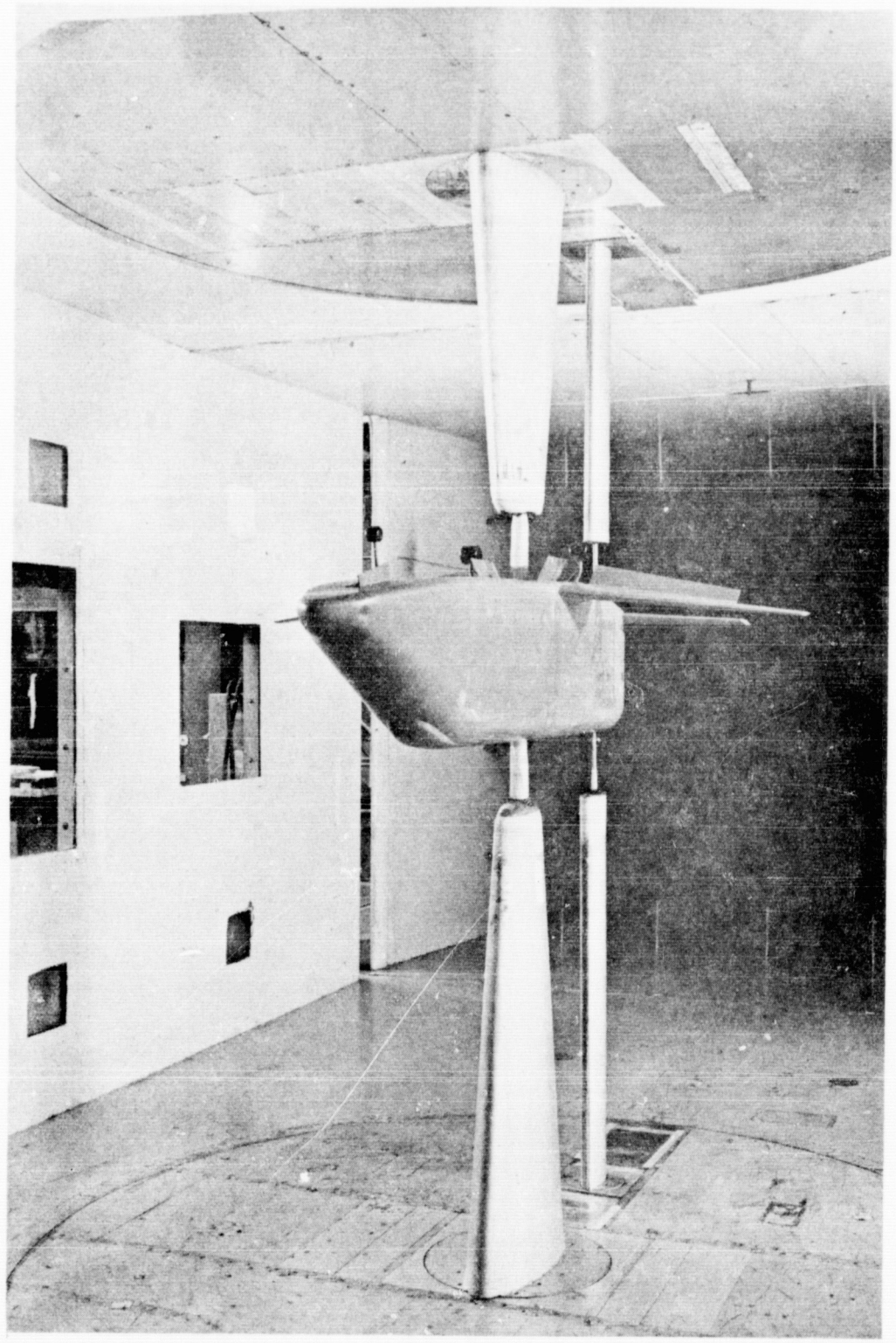
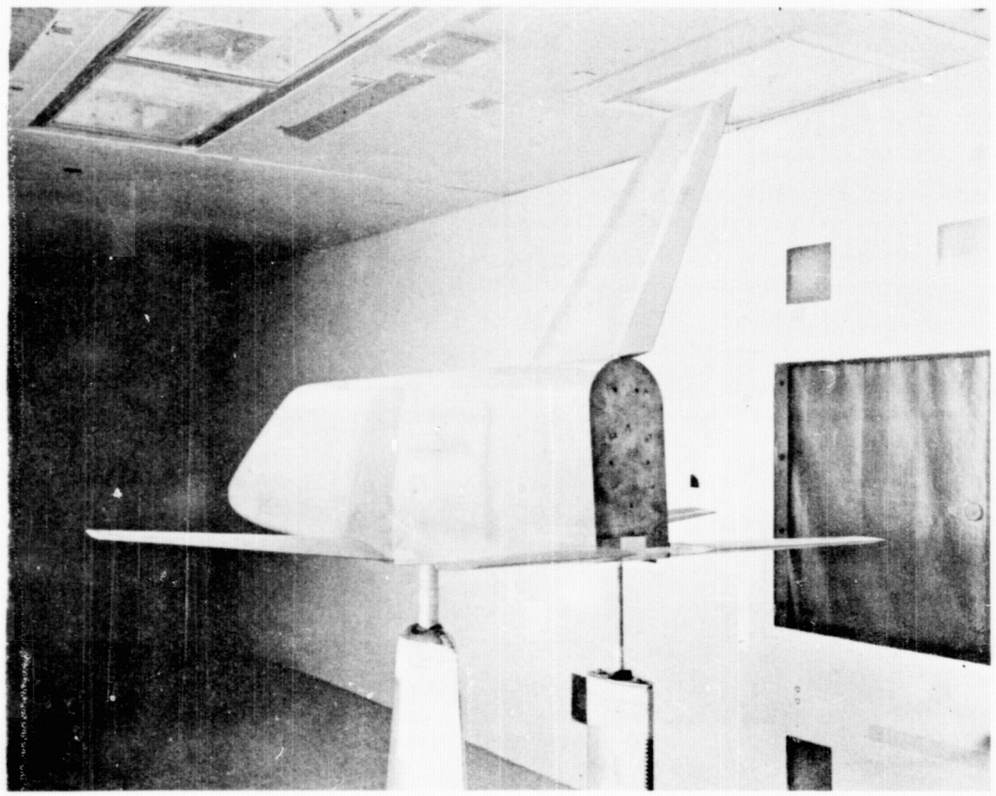
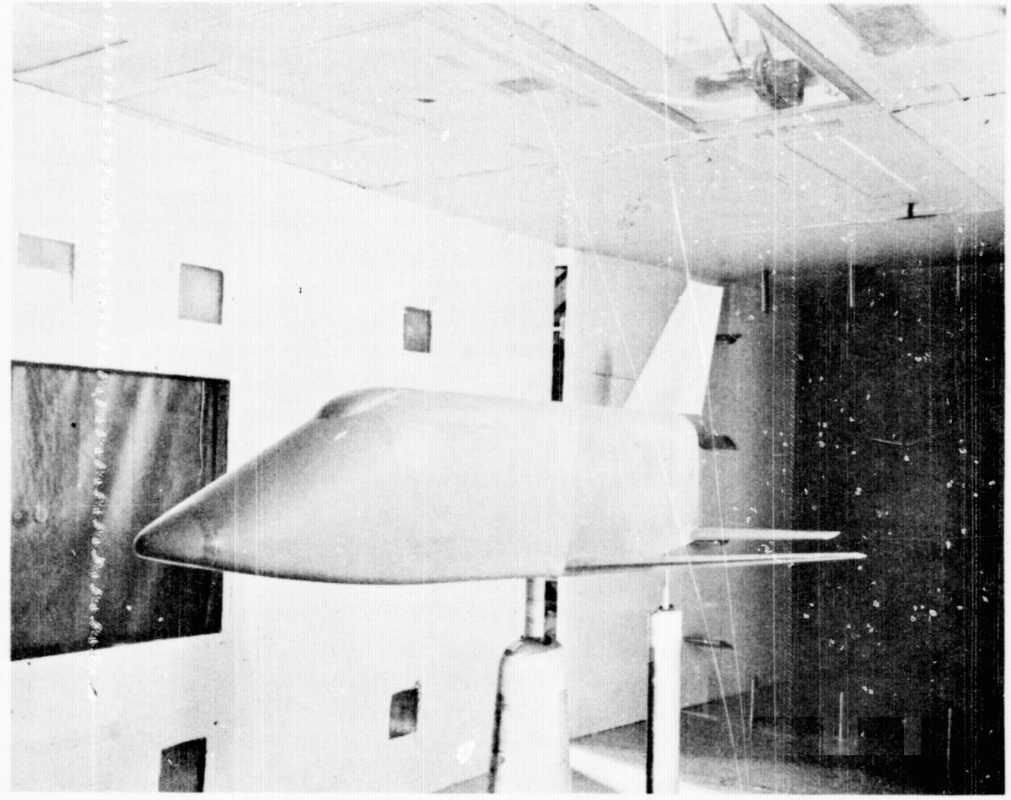


FIGURE 2 - $B_4W_2H_1G\ F_2$ MODEL WITH TARE AND INTERFERENCE IMAGE SYSTEM



3a Rear View



3b Front View

FIGURE 3 - $B_4W_2V_1H_1$ RUDDER DEFLECTION, $\delta_R = 20°$ (RUN 55)

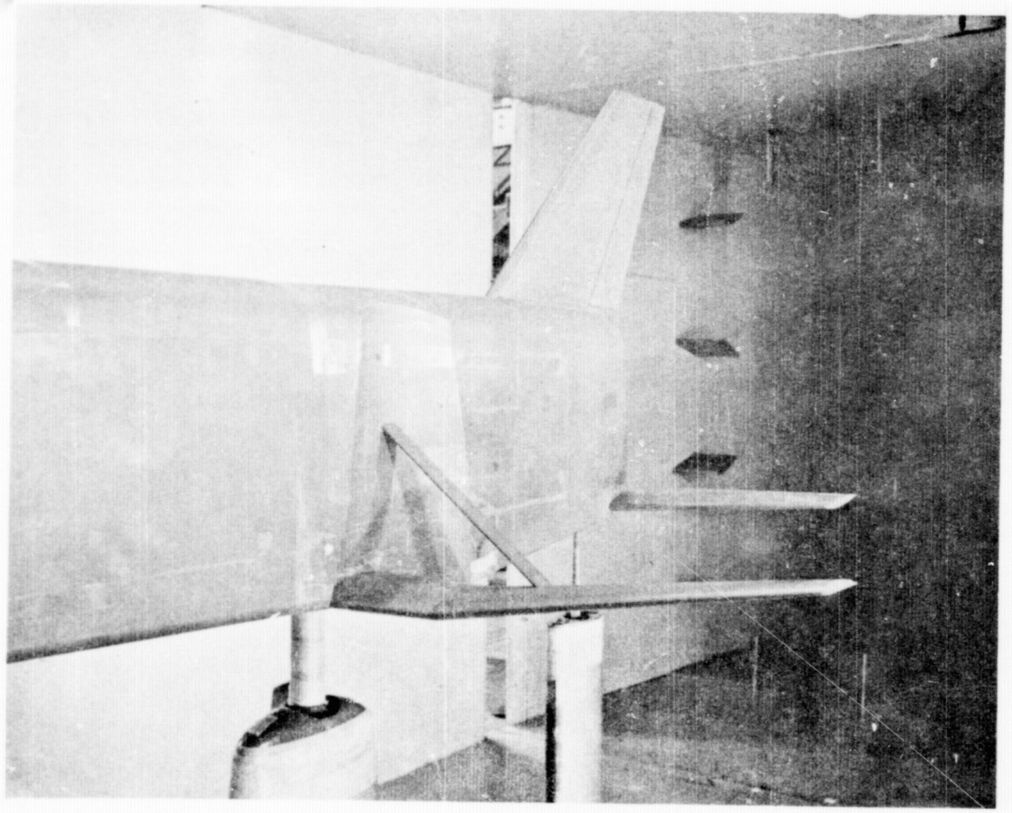


FIGURE 4 - $B_3W_1V_1H_1J_1$

Cambered wing with struts, horizontal tail incidence $i_H = -5°$ (Run 21)

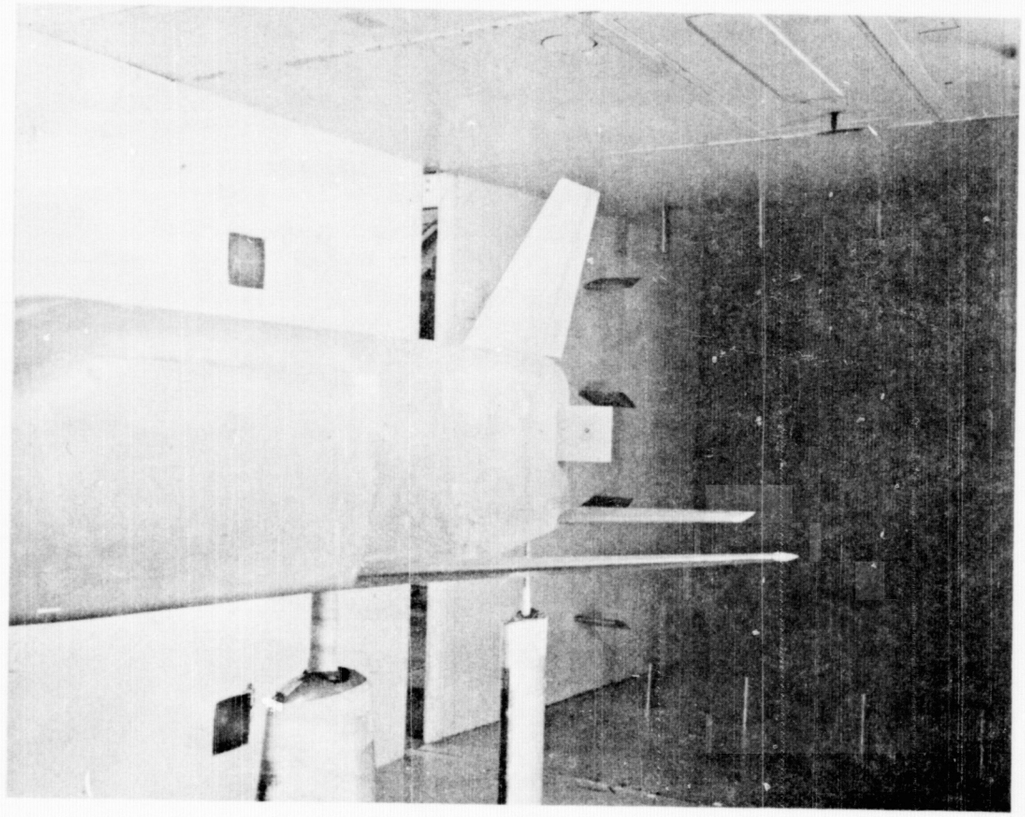


FIGURE 5 - $B_4W_2V_1H_1$ BODY

Speed brake in aft location, $\delta_{SB} = 60°$ (Run 94)

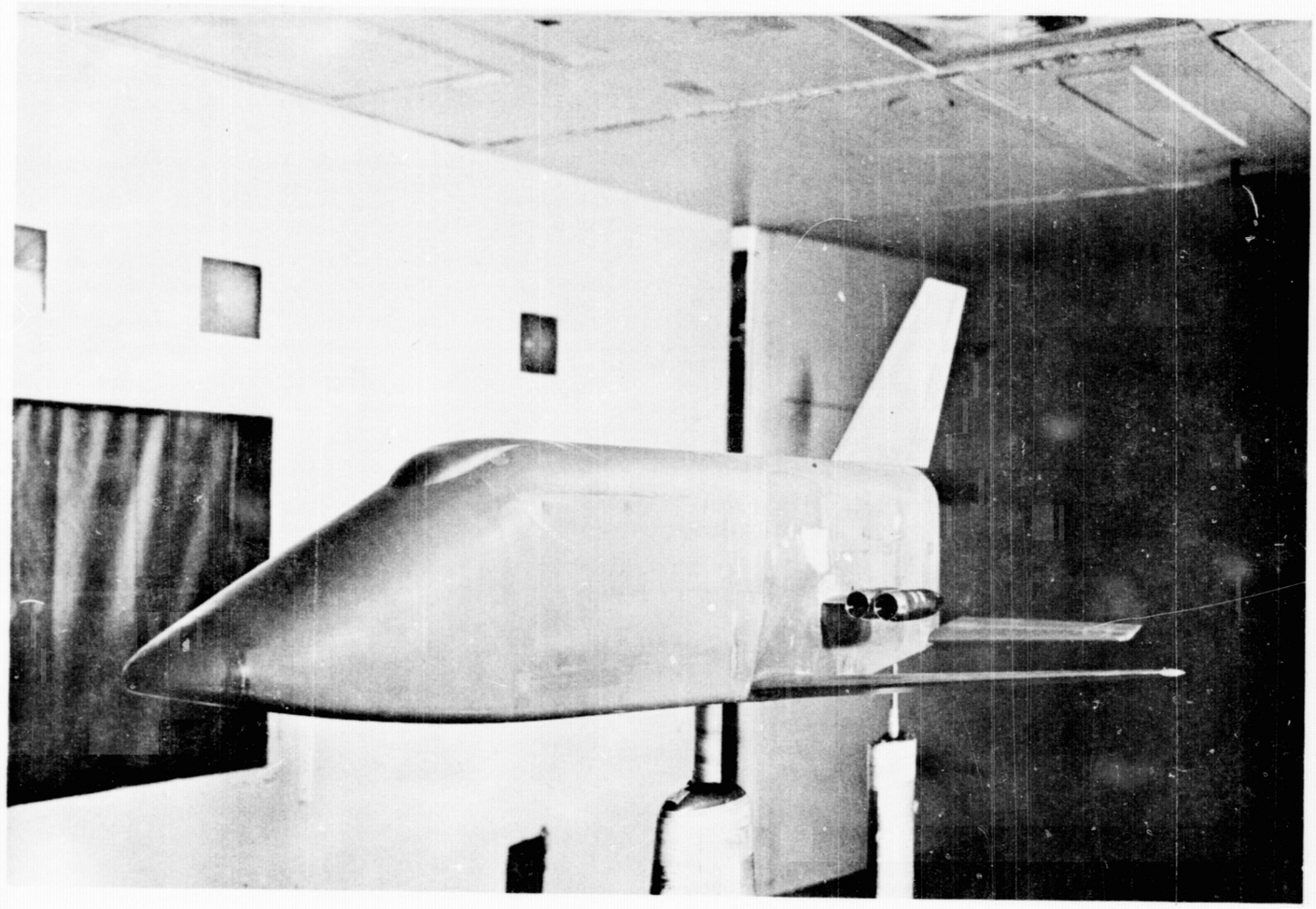


FIGURE 6 - $B_4W_2V_1H_1P_3$ NON-BLOWING ENGINE DUCT INSTALLATION $i_H = -5°$, $\delta_{ER} = -10°$

FIGURE 7 - $B_4W_2V_1H_1P_4$ CRUISE ENGINE JET INTERFERENCE INSTALLATION

TUNNEL INSTALLATION
(UNPOWERED)

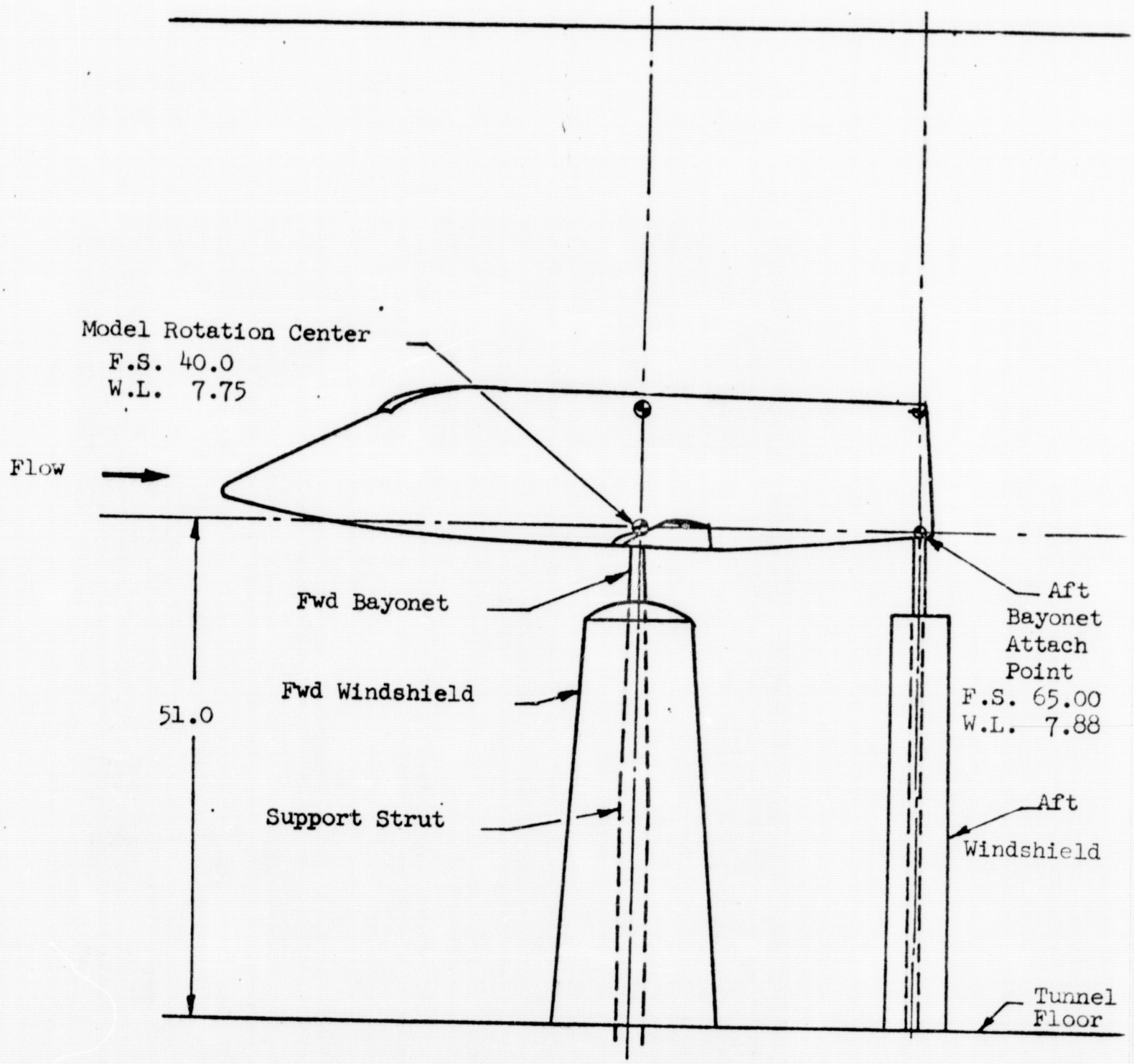
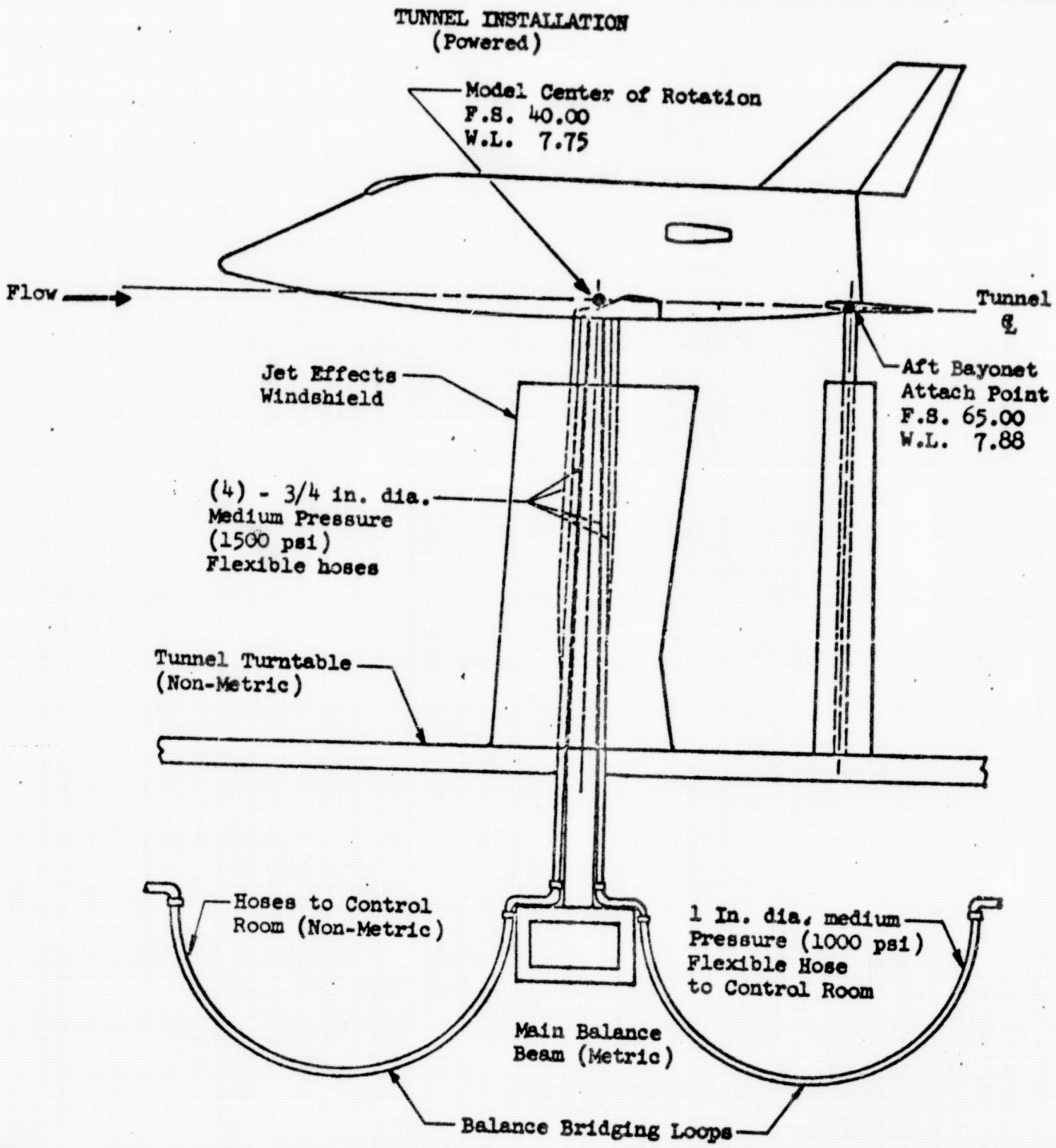


FIGURE 8. DRAWING OF UNPOWERED CONFIGURATION IN TUNNEL

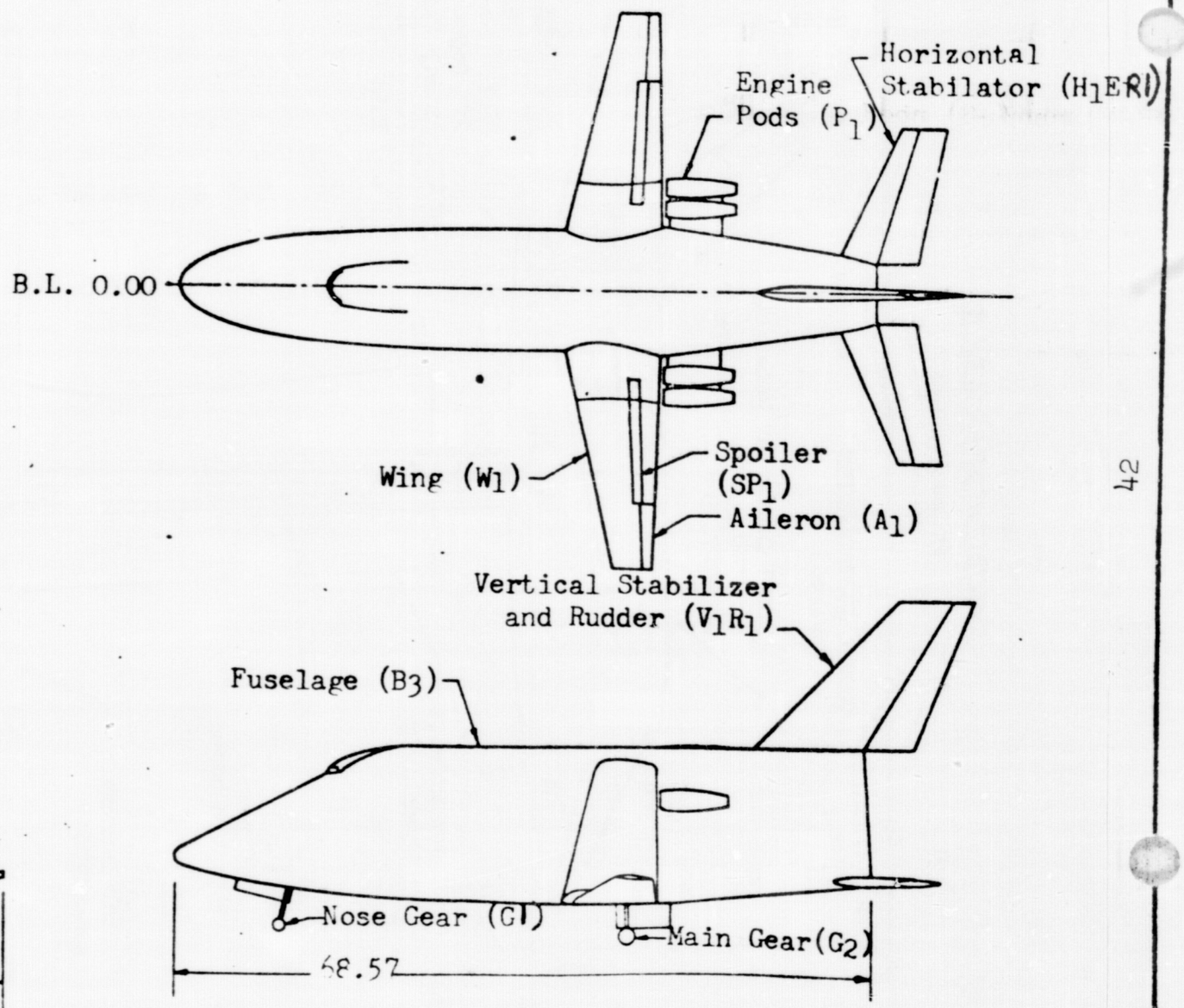


Notes:
1. All dimensions are model scale in inches.
2. Bridging loops are symmetrical about vertical centerline of balance.
3. Entire bridging system rotates with model in yaw.
4. Reference: McDonnell Dwg. No. STS-03326

FIGURE 9. DRAWING OF POWERED CONFIGURATION IN TUNNEL

GENERAL ASSEMBLY

NOTES: 1. All dimensions model scale in inches.
2. Reference: McDonnell Dwg. STS-03326.



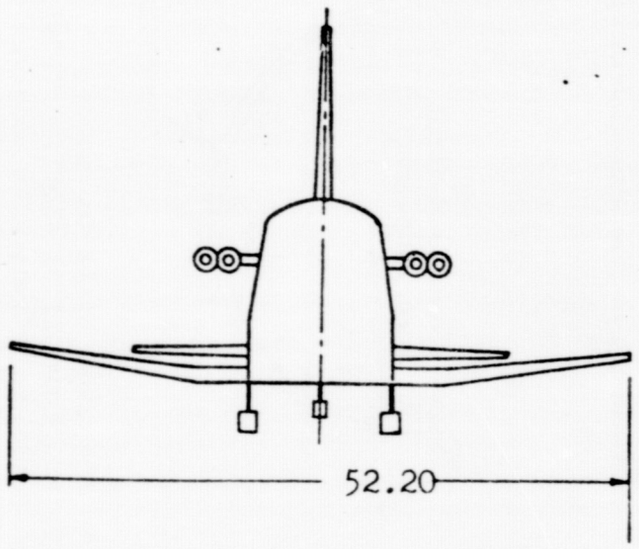
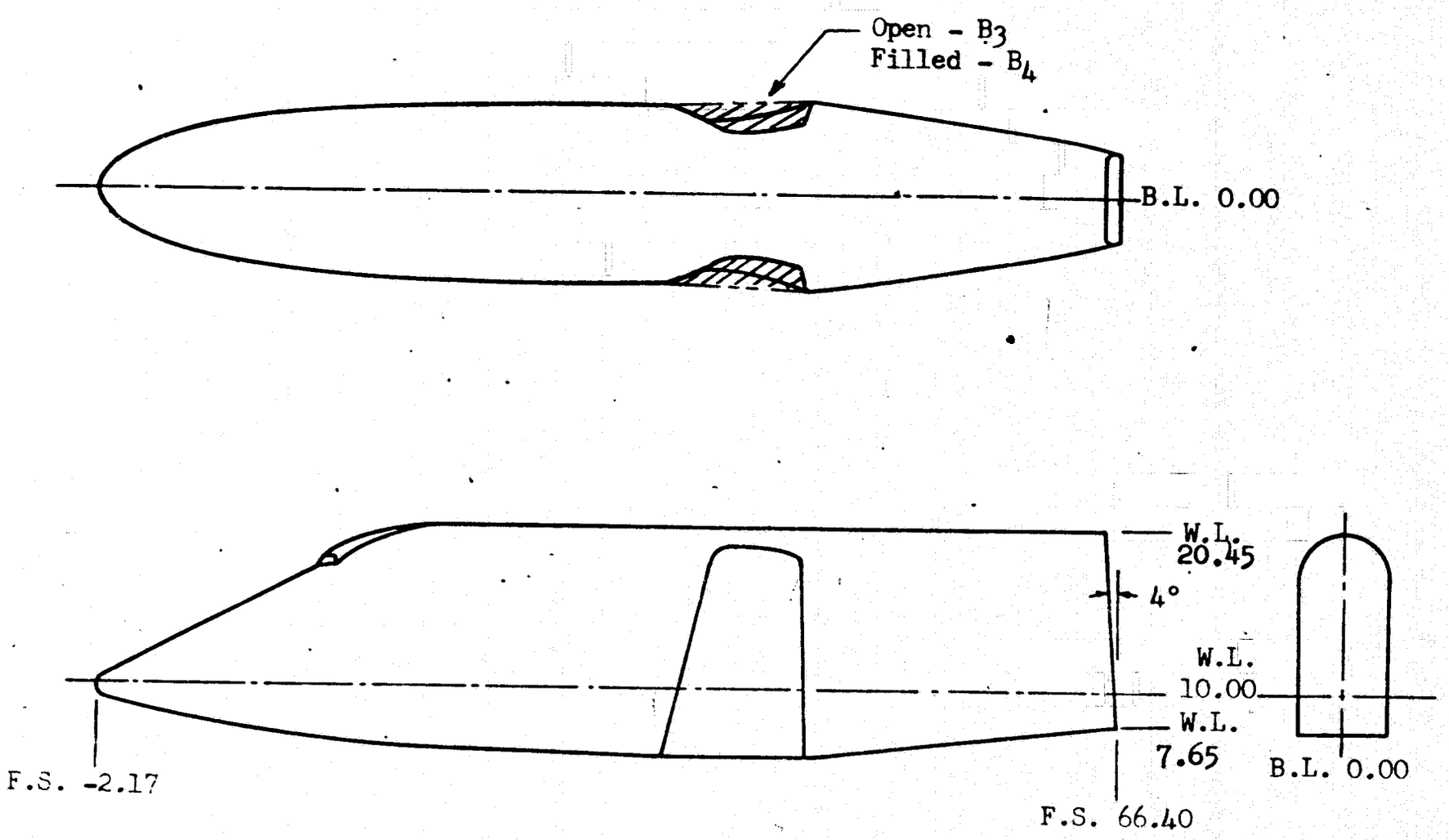


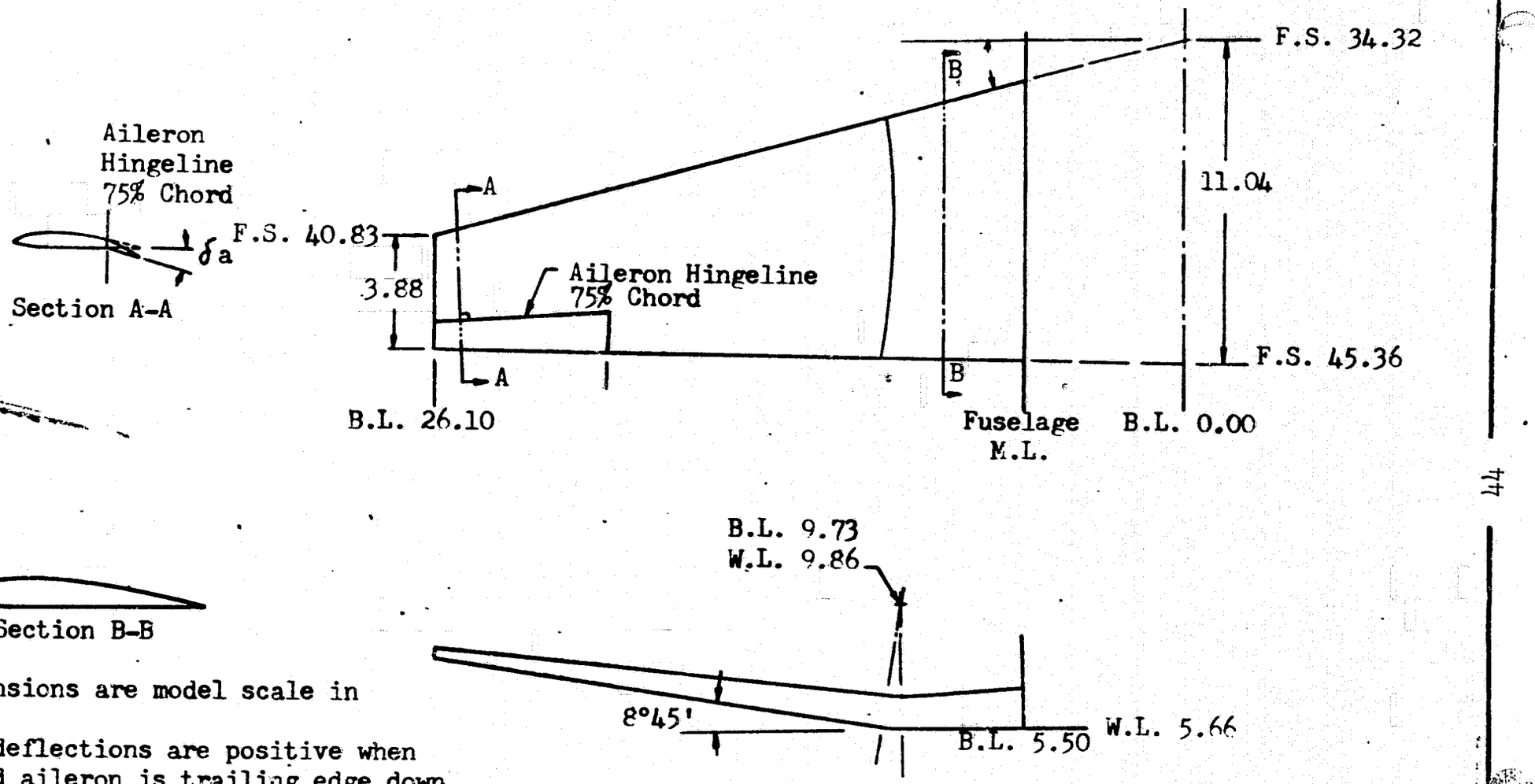
FIGURE 10. GENERAL ASSEMBLY DRAWING

FUSELAGE (B_3, B_4)



NOTES: 1. All dimensions are model scale in inches.
2. Reference: McDonnell Dwgs. STS-03327, STS-03328, STS-03344

FIGURE 11. DRAWING OF FUSELAGE B3 AND B4

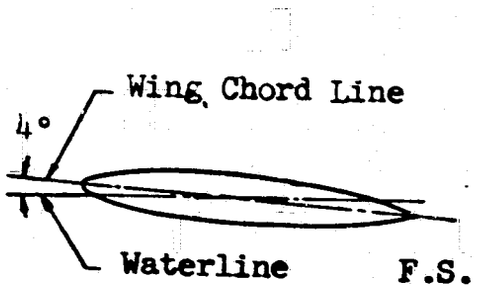


NOTES:
1. All dimensions are model scale in inches.
2. Aileron deflections are positive when left hand aileron is trailing edge down and right hand aileron is trailing edge up.
3. Left hand wing shown, right hand opposite.
4. Reference: McDonnell Dwg. STS-03331.

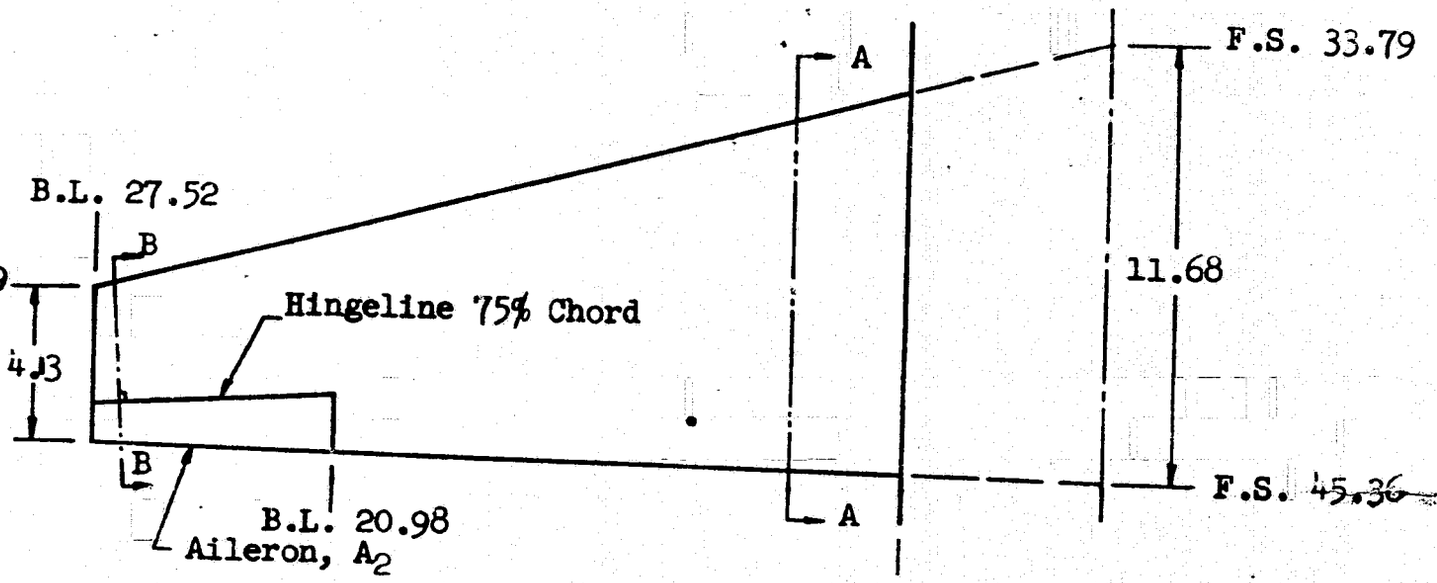
WING (W_1) AND AILERON (A_1)

FIGURE 12. DRAWING OF WING W1 AND AILERON A1

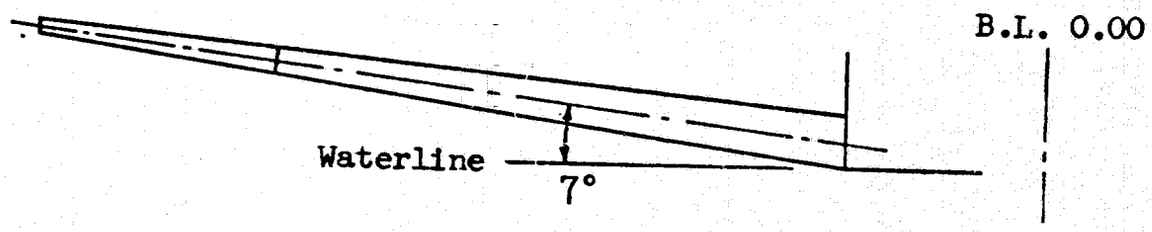
WING (W_2) AND AILERON (A_2)



Section A-A



Section B-B



Notes:
1. All dimensions are model scale in inches.
2. Aileron deflections are positive when left hand aileron is trailing edge down and right hand aileron is trailing edge up.
3. Reference: McDonnell Dwgs. STS-03342
   STA-03343

FIGURE 13. DRAWING OF WING W2 AND AILERON A2

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REVISED _____
REVISED _____

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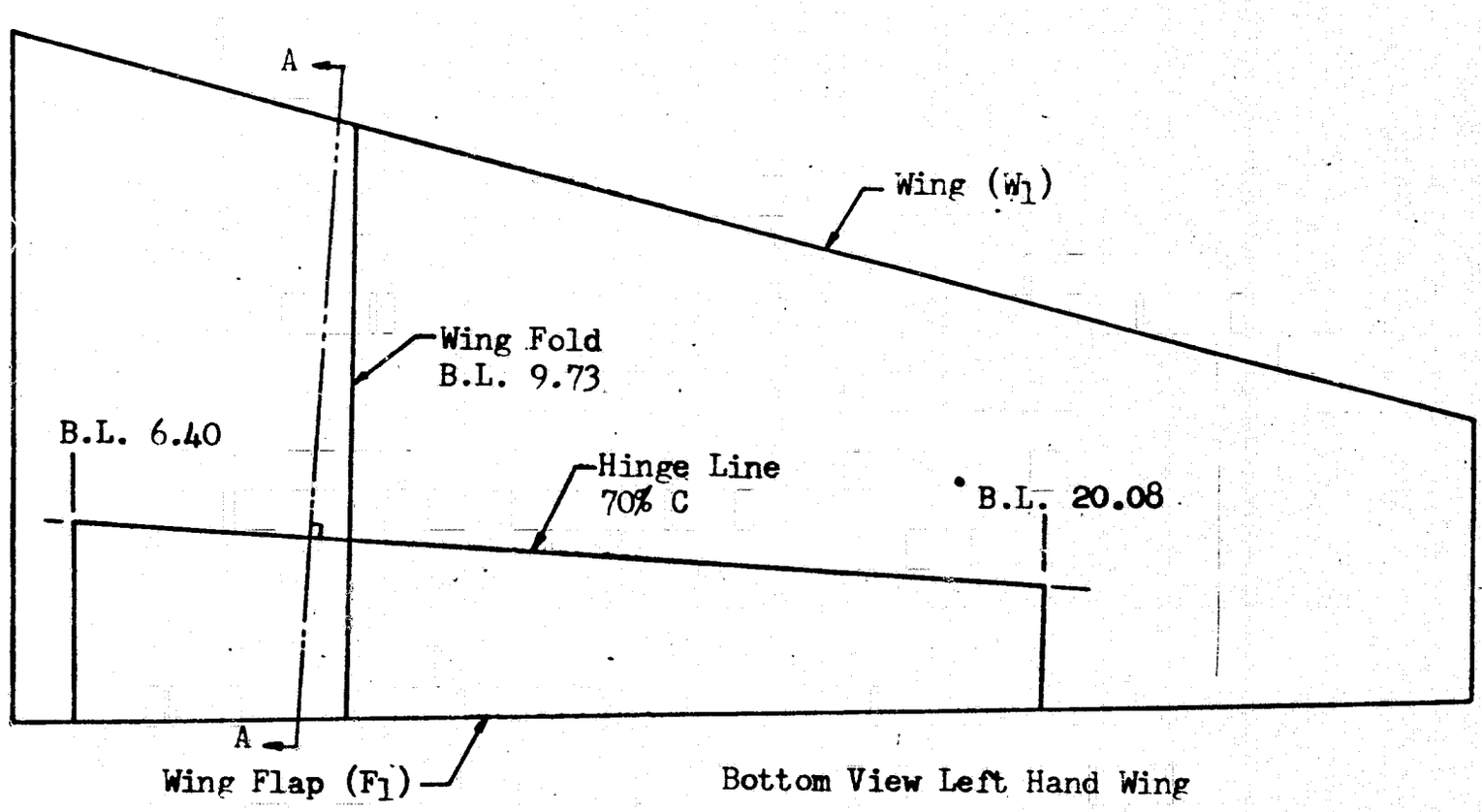
ST. LOUIS, MISSOURI

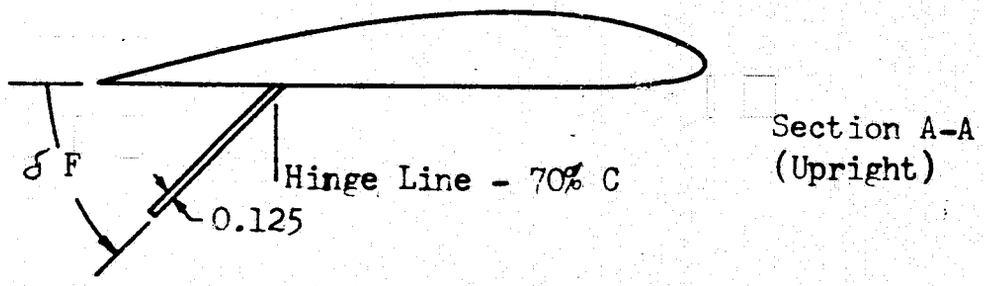
PAGE _____
REPORT _____
MODEL _____

WING FLAP (F_1)



NOTE :
1. All dimensions are model scale in inches.
2. Left hand wing shown, right hand opposite.
3. Reference: McDonnell Dwg. STS-03332

Bottom View Left Hand Wing



Section A-A
(Upright)

FIGURE 14. DRAWING OF WING FLAP F1

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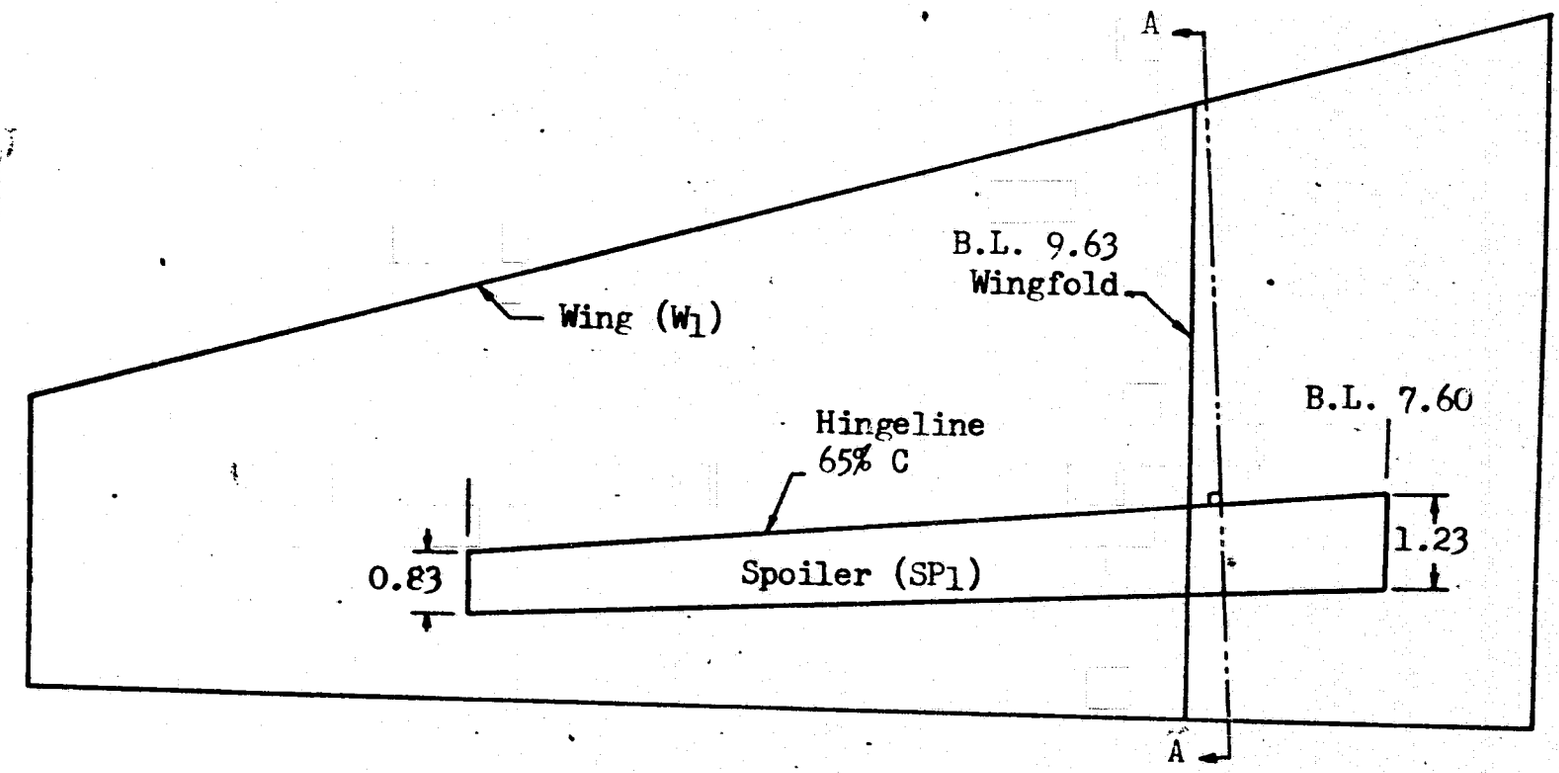
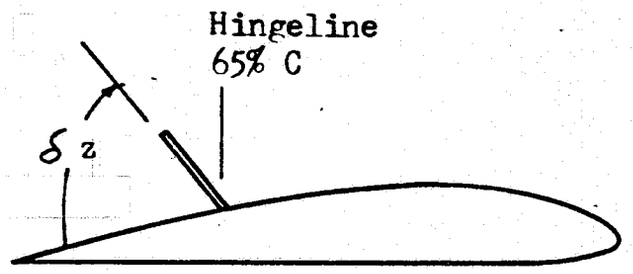
REVISED
REVISED

MCDONNELL
ST. LOUIS, MISSOURI

PAGE
REPORT
MODEL

WING SPOILER (SP_1)





NOTES:
1. All dimension are model scale in inches.
2. Left hand shown, right hand opposite.
3. Reference: McDonnell Dwg. STS-03332

FIGURE 15. DRAWING OF WING SPOILER SP1

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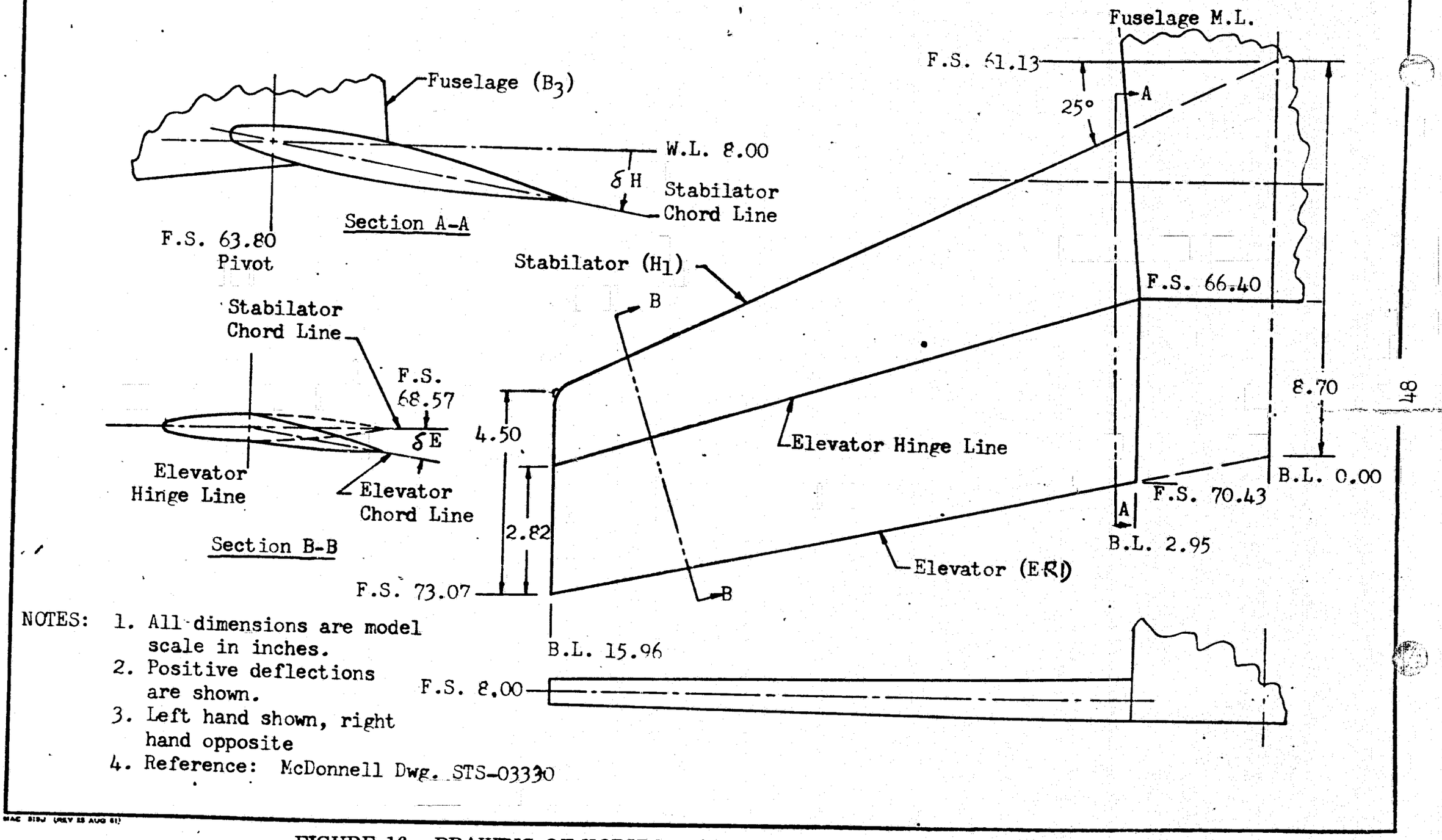
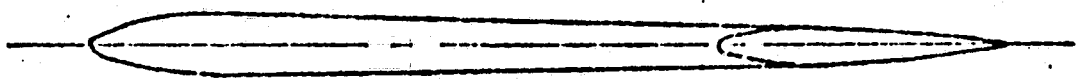
HORIZONTAL STABILATOR (H_1) AND ELEVATOR (ER1)

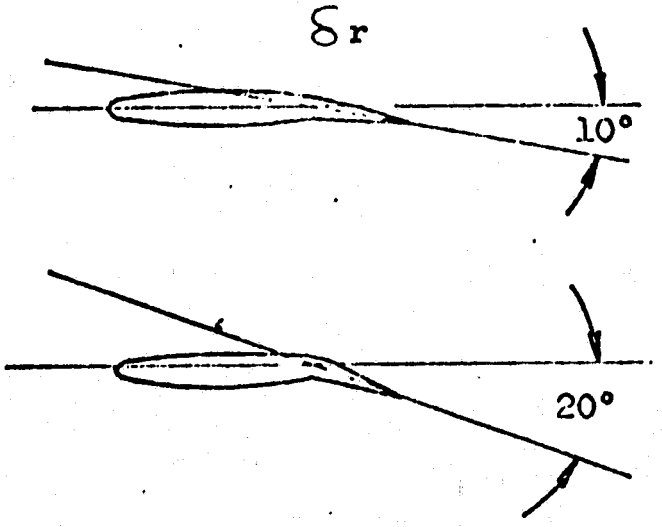


NOTES:
1. All dimensions are model scale in inches.
2. Positive deflections are shown.
3. Left hand shown, right hand opposite
4. Reference: McDonnell Dwg. STS-03330

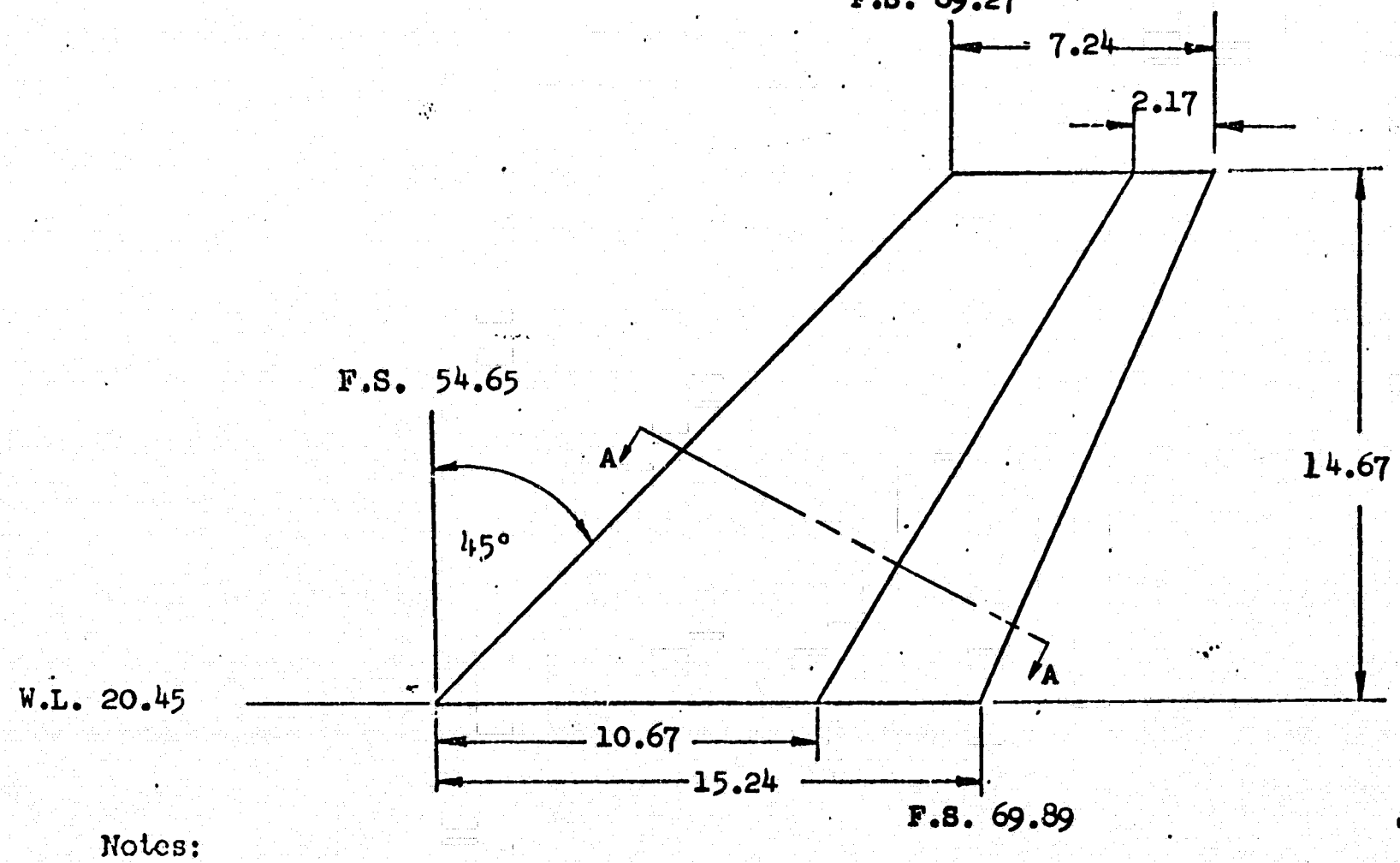
FIGURE 16. DRAWING OF HORIZONTAL STABILATOR H1 AND ELEVATOR ER1



Section A-A



F.S. 69.27

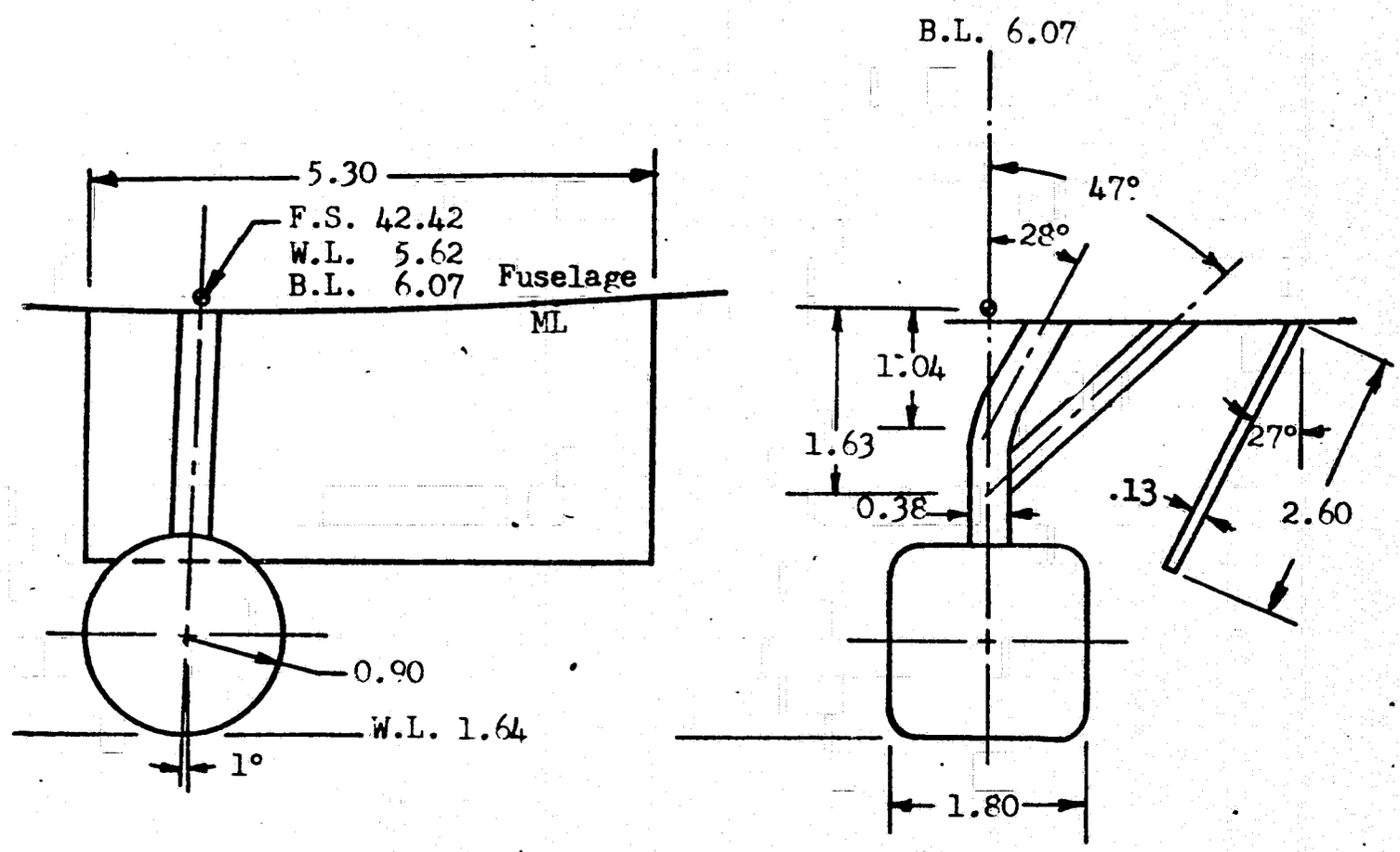


Notes:
1. All dimensions are model scale in inches.
2. Reference Dwg. No.

FIGURE 17. VERTICAL TAIL (V_1) AND RUDDER (R_1)

4.0% LOW CROSS RANGE (01)

MAIN LANDING GEAR (G_2)



Notes:
1. **All dimensions are model scale in inches.**
2. **Left hand shown, right hand opposite.**
3. **Reference: McDonnell Dwg. STS-03334**

FIGURE 18. DRAWING OF MAIN LANDING GEAR G2

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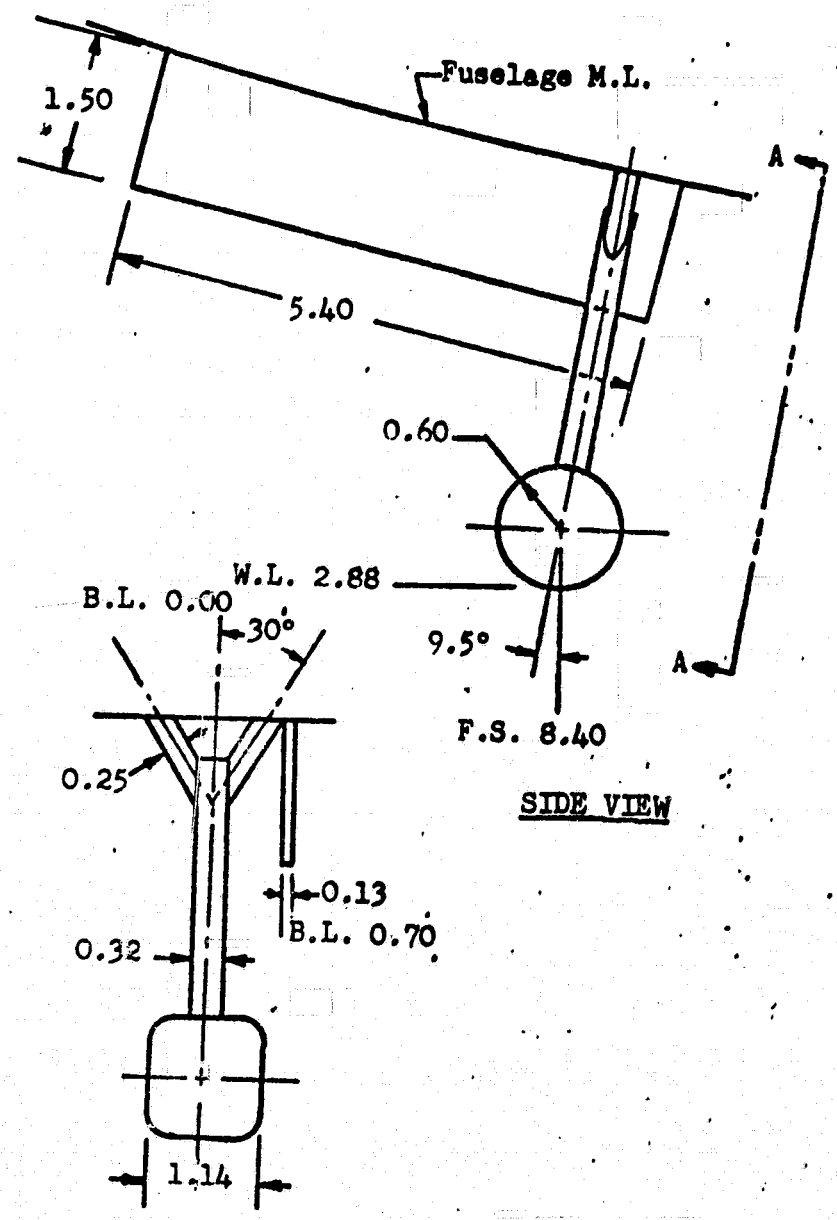
NOSE LANDING GEAR (C_1)



NOTES: 1. All dimensions are model scale in inches.
2. Reference: McDonnell Dwg. STS-03334.

FIGURE 19. DRAWING OF NOSE LANDING GEAR G1

REACTION CONTROL SYSTEM POD (N_1)

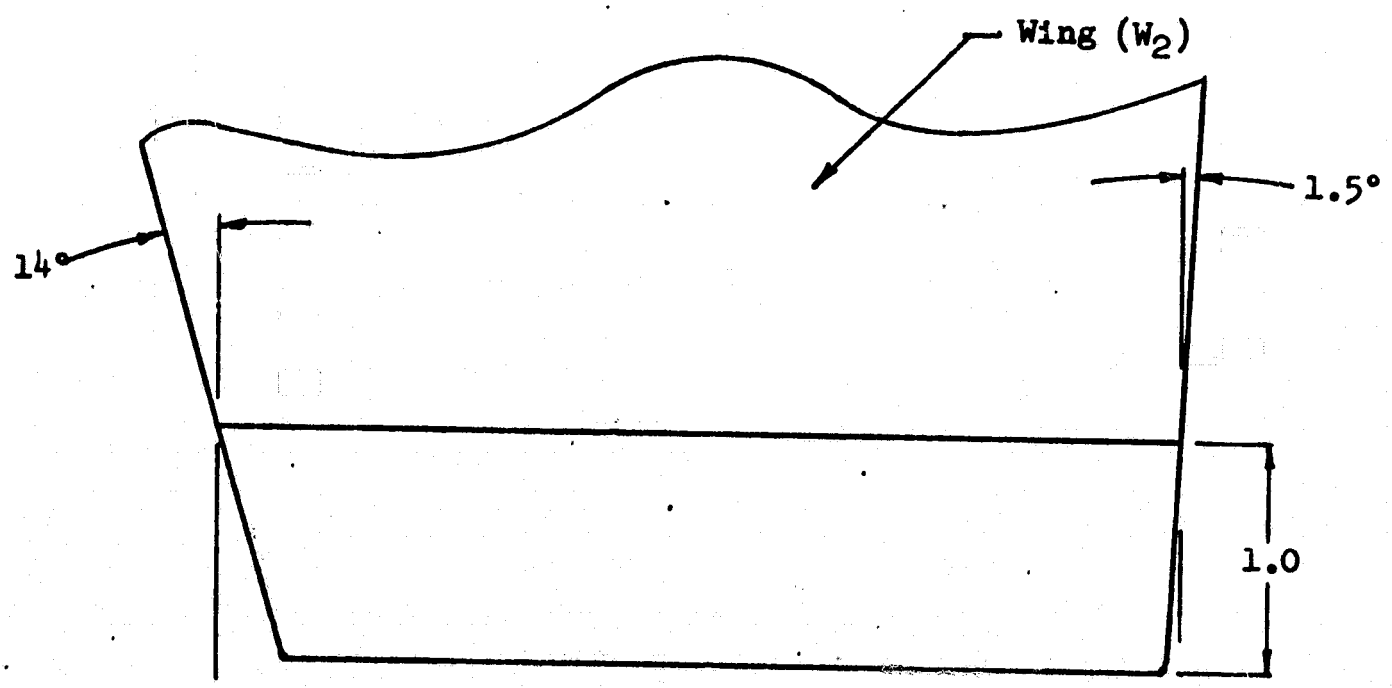


FIGURE 20. DRAWING OF REACTION CONTROL SYSTEM POD N1

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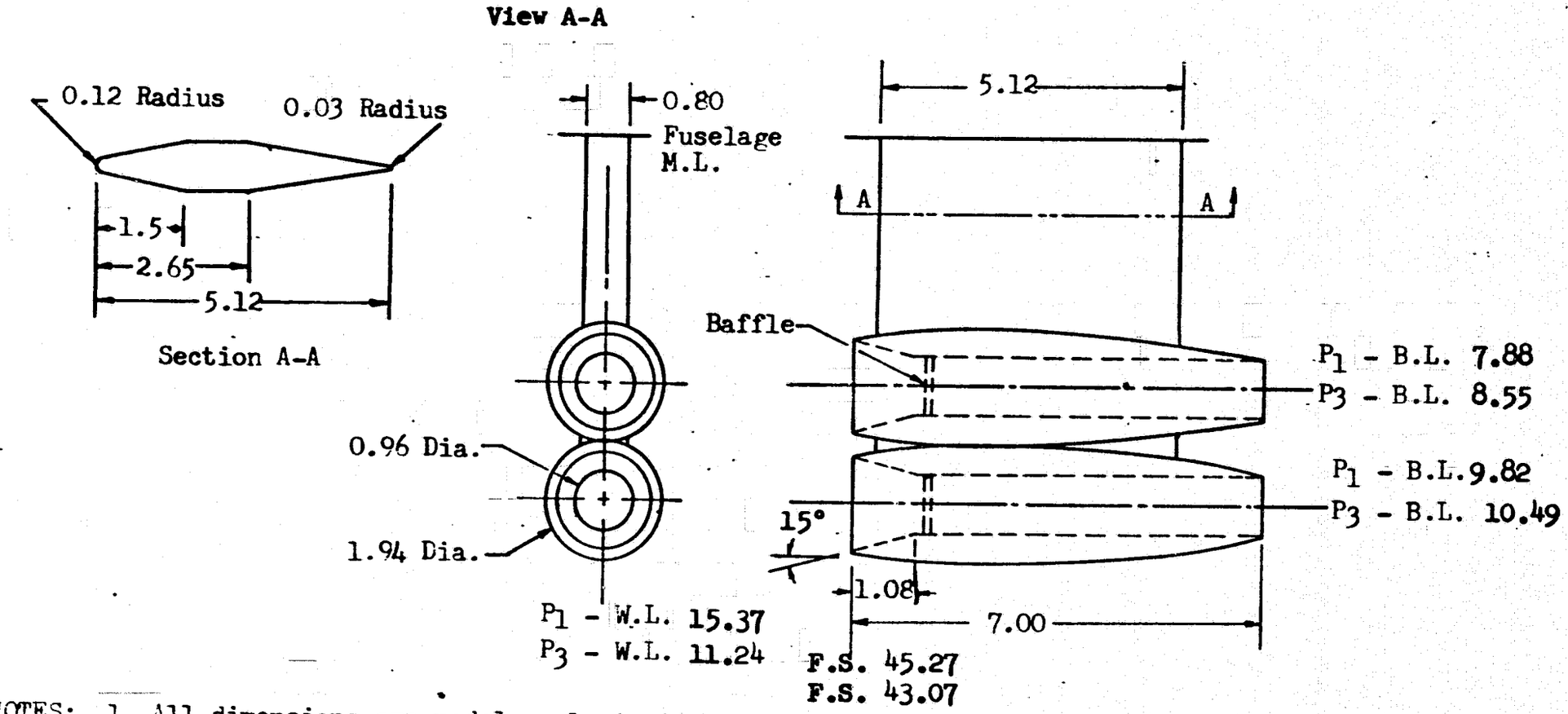
FLOW-THROUGH NACELLES (P_1, P_3)



NOTES:
1. All dimensions are model scale in inches.
2. Left hand shown, right hand opposite.
3. **Reference:** McDonnell Dwgs. STS-03326
   STS-03336

FIGURE 21. DRAWING OF FLOW-THROUGH NACELLES P1 AND P3

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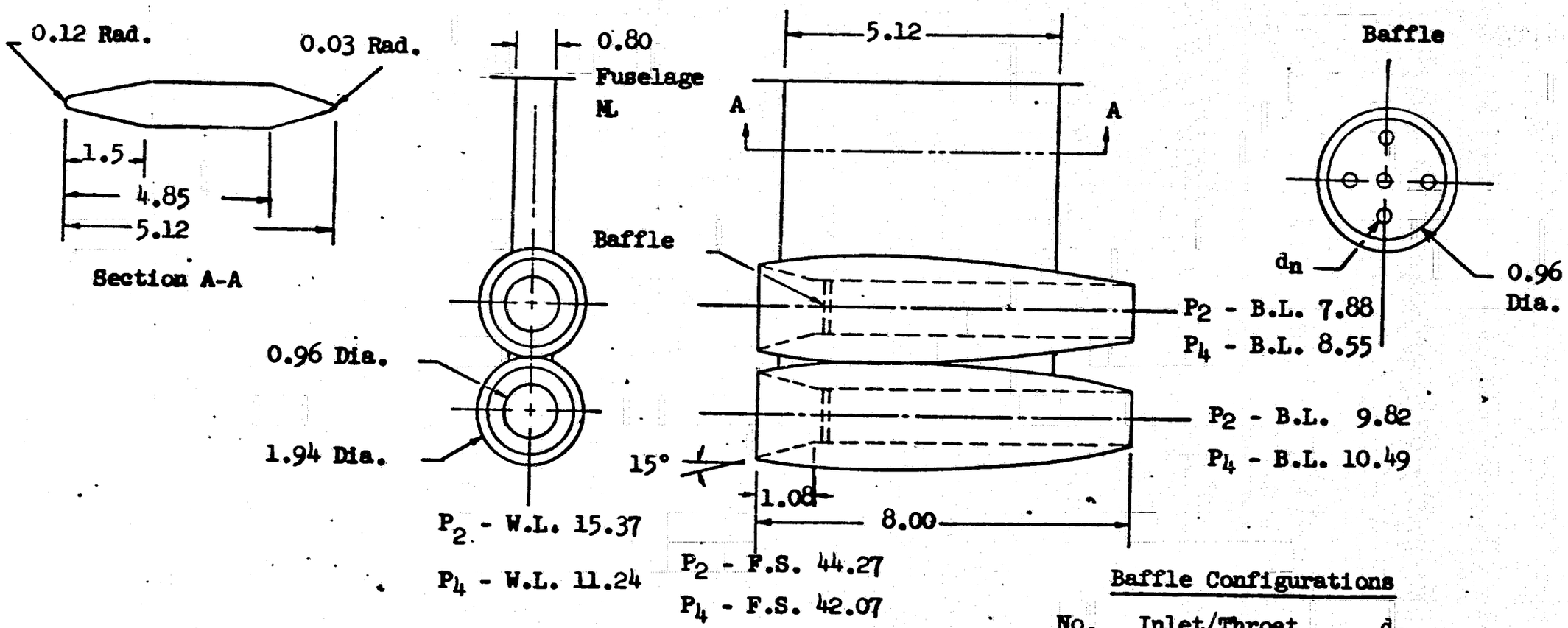
POWERED NACELLES (P_2, P_4)

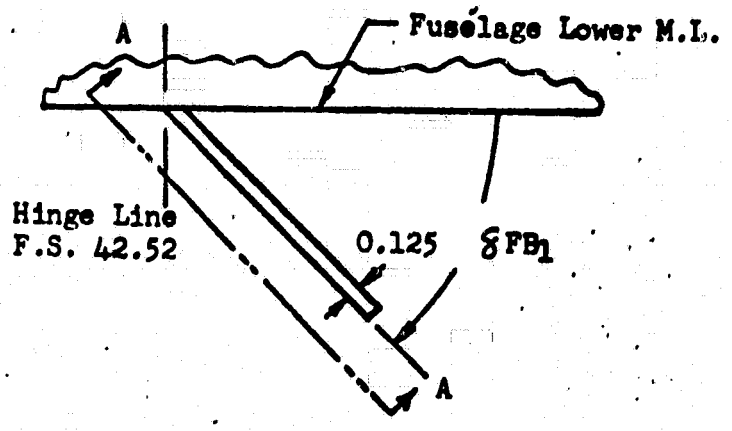


Baffle Configurations

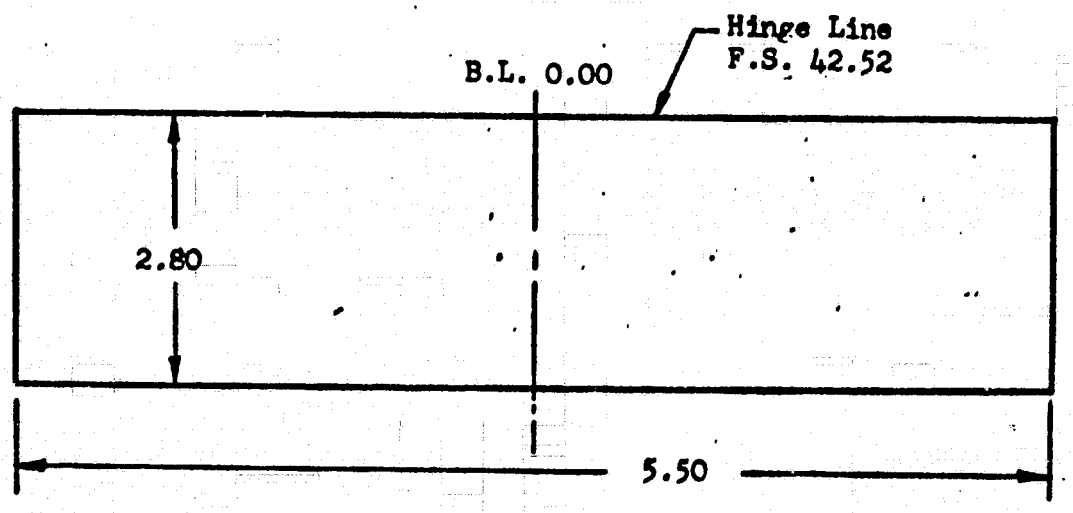
No.	Inlet/Throat	d_n
D_1	1/1	0.96 in.
D_2	2/1	0.312 in.
D_3	3/1	0.25 in.
D_4	Full closed	

FIGURE 22. DRAWING OF POWERED NACELLES P2 AND P4

BODY FLAP (FB_2)



SIDE VIEW

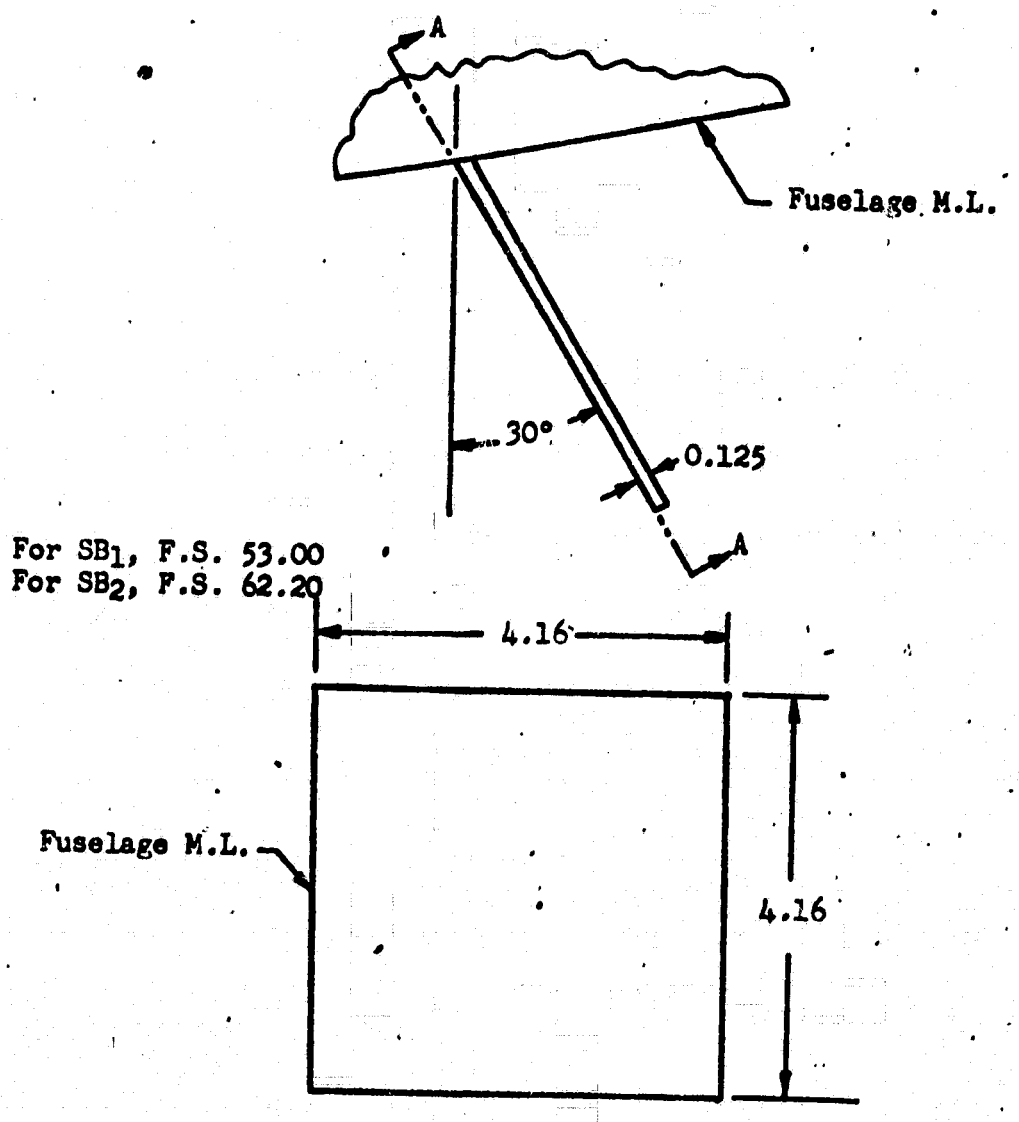


Section A-A (Rotated 90°)

NOTES: 1. All dimensions are model scale in inches.
2. Reference: McDonnell Dwg. STS-03332.

FIGURE 23. DRAWING OF BODY FLAP FB2

FUSELAGE SPEED BRAKES (SB_1, SB_2)



Section A-A

NOTES:
1. All dimensions are model scale in inches.
2. Left hand shown, right hand opposite.
3. Reference: McDonnell Dwg. STS-03333.

FIGURE 24. DRAWING OF FUSELAGE SPEED BRAKES SB1 AND SB2

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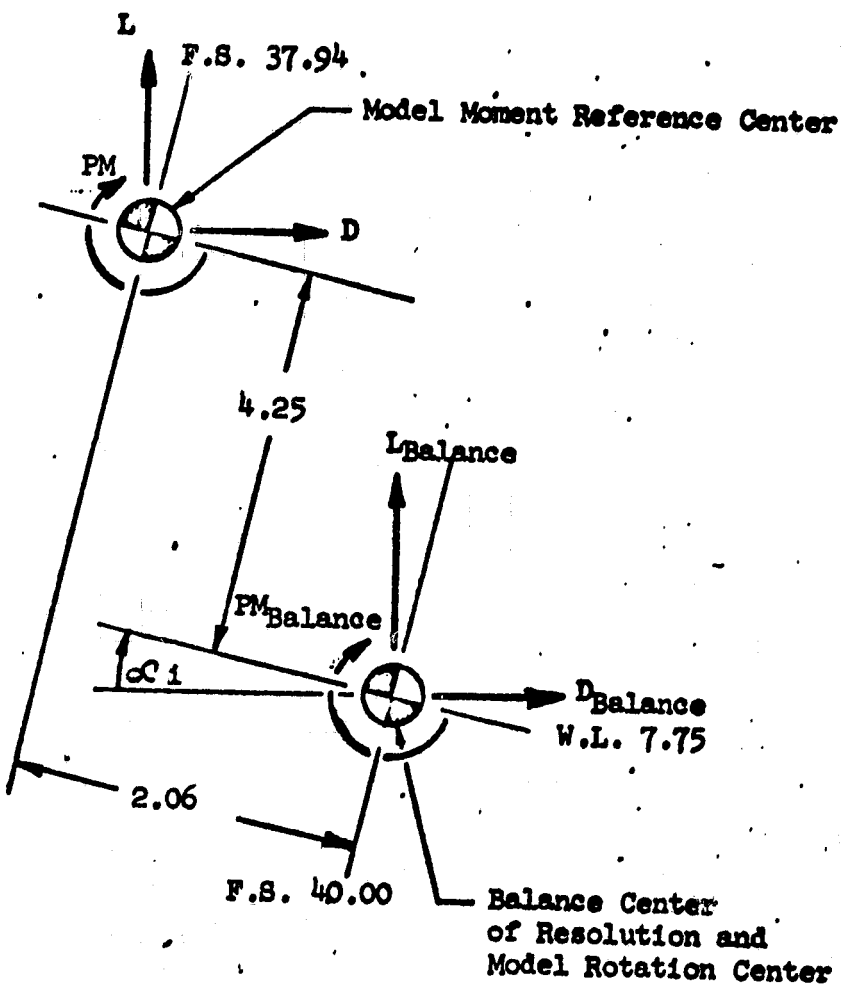
MOMENT TRANSFER DIAGRAM
(MODEL UPRIGHT)



Note: All dimensions are in inches.

FIGURE 25. DRAWING OF MOMENT TRANSFER DIAGRAM

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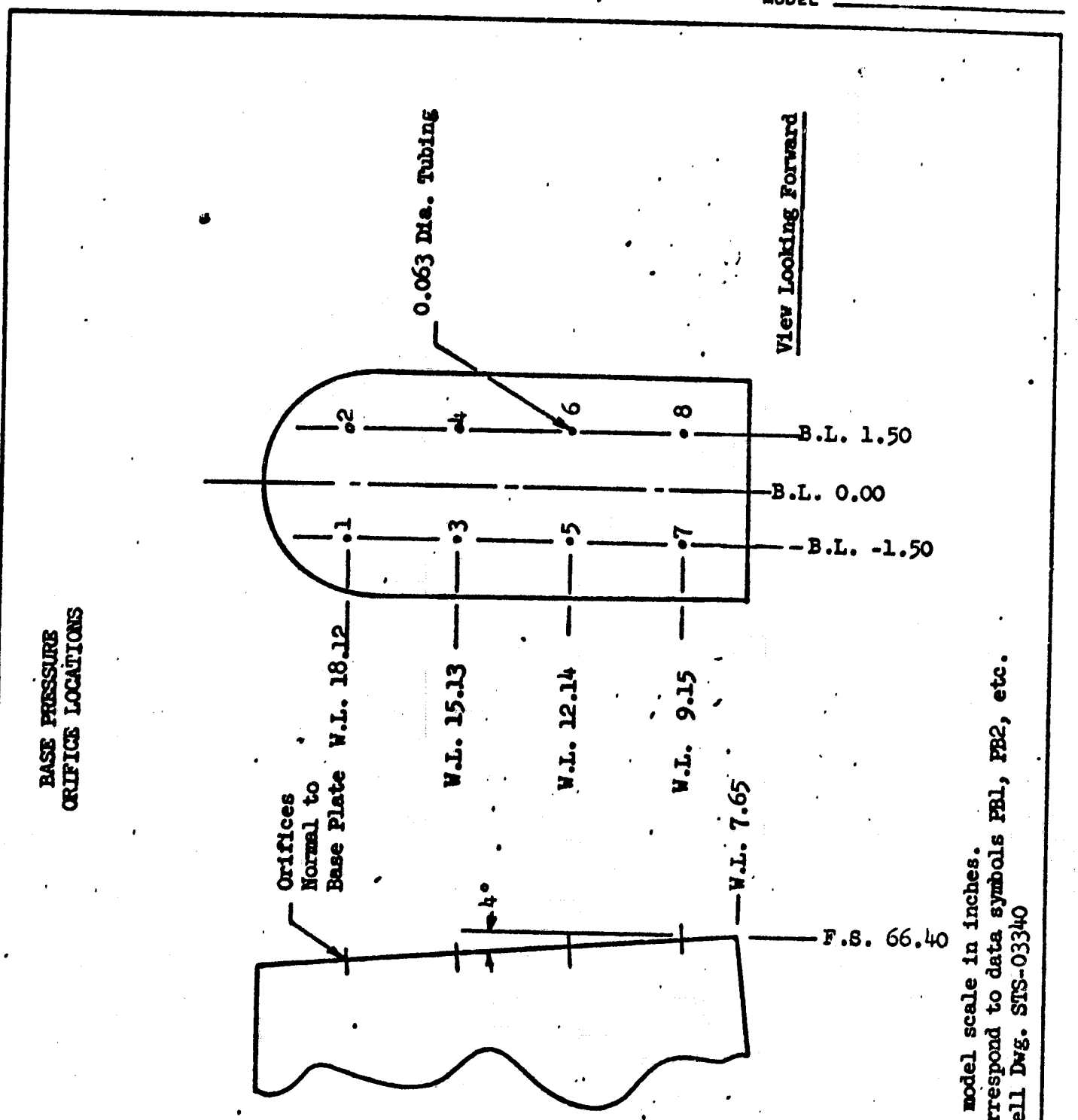


FIGURE 26. DRAWING OF BASE PRESSURE ORIFICE LOCATIONS

TABLE III :

MODEL COMPONENT: BODY - LCR ORBITER B3

GENERAL DESCRIPTION: B4 = B3 WITH WING FUSELAGE CUT-OUT FILLED

DRAWING NUMBER: -

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Length	1714.2 IN.	68.57 IN.
Max. Width	309.3 IN.	12.37 IN.
Max. Depth	372.3 IN.	14.89 IN.
Fineness Ratio	-	-
Area		
Max. Cross-Sectional	-	-
Planform	-	-
Wetted	-	-
Base	325.1 FT^2	74.9 $IN.^2$

TABLE IV

MODEL COMPONENT: WING ~ LCR ORBITER W1

GENERAL DESCRIPTION: CONTROL SURFACES INCLUDED CAMBERED AIRFOIL W3=W1 FOLDED INTO BODY CAVITY

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
TOTAL DATA		
Area		
Planform	1690 FT²	389.41 IN²
Wetted	-	-
Span (equivalent)	1305 IN.	52.20 IN
Aspect Ratio	7.0	7.00
Rate of Taper	-	-
Taper Ratio	.351	.351
Diehedral Angle, degrees	8°45' *	8°45' *
Incidence Angle, degrees	2°45'	2°45'
Aerodynamic Twist, degrees	0	0
Toe-In Angle	0	0
Cant Angle	0	0
Sweep Back Angles, degrees		
Leading Edge	14°	14°
Trailing Edge	-1°26'	-1.°26'
0.25 Element Line	10°14'	10°14'
Chords:		
Root (Wing Sta. 0.0)	276 IN.	11.04 IN.
Tip, (equivalent)	97 IN.	3.88 IN.
MAC	200.8 IN.	8.03 IN.
Fus. Sta. of .25 MAC	976.5 IN.	39.06 IN.
W.P. of .25 MAC	155.3 IN.	6.21 IN.
B.L. of .25 MAC	274 IN.	10.96 IN.
Airfoil Section		
Root	4414	4414
Tip	4410	4410
EXPOSED DATA		
Area	1199 FT²	276.25 IN²
Span, (equivalent)	1030 IN.	41.20 IN.
Aspect Ratio	6.13	6.13
Taper Ratio	.41	.41
Chords		
Root	238.3 IN.	9.53 IN.
Tip	97 IN.	3.88 IN
MAC	178.3 IN.	7.13 IN.
Fus. Sta. of .25 MAC	992 IN.	39.68 IN.
W.P. of .25 MAC	168.3 IN.	6.73 IN.
B.L. of .25 MAC	358.8 IN.	14.35 IN.

* OUTBOARD @ B.L. 10.0

TABLE V

MODEL COMPONENT: WING - LCR ORBITER W2

GENERAL DESCRIPTION: CONTROL SURFACES INCLUDED
SYMMETRICAL AIRFOIL

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
TOTAL DATA		
Area		
Planform	1900 FT²	437.77 IN.²
Wetted	-	-
Span (equivalent)	1384.5 IN.	55.38 IN.
Aspect Ratio	7.00	7.00
Rate of Taper	-	-
Taper Ratio	0.353	0.353
Diehedral Angle, degrees	7°	7°
Incidence Angle, degrees	4°	4°
Aerodynamic Twist, degrees	-	-
Toe-In Angle	-	-
Cant Angle	-	-
Sweep Back Angles, degrees		
Leading Edge	14°	14°0'
Trailing Edge	1°20'	1°20'
0.25 Element Line		-
Chords:		
Root (Wing Sta. 0.0)	292 IN.	11.68 IN.
Tip, (equivalent)	103.3 IN.	4.13 IN.
MAC	212.8 IN.	8.51 IN.
Fus. Sta. of .25 MAC	-	-
W.P. of .25 MAC	-	-
B.L. of .25 MAC	-	-
Airfoil Section		
Root	0014-64	0014-64
Tip	0010-64	0010-64
EXPOSED DATA		
Area	1379.8 FT²	317.90 IN.²
Span, (equivalent)	1110 IN.	44.40 IN.
Aspect Ratio	6.20	6.20
Taper Ratio	.405	0.405
Chords		
Root	254.8 IN.	10.19 IN.
Tip	103.3 IN.	4.13 IN.
MAC	189.8 IN.	7.59 IN.
Fus. Sta. of .25 MAC	-	-
W.P. of .25 MAC	-	-
B.L. of .25 MAC	-	-

TABLE VI

MODEL COMPONENT: HORIZONTAL TAIL ~ LCR ORBITER H1

GENERAL DESCRIPTION: ELEVATOR SURFACE INCLUDED

DRAWING NUMBER: STS 03330

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
TOTAL DATA		
Area		
Planform	914.4 FT²	210.67 IN.²
Wetted	-	-
Span (equivalent)	798 IN.	31.92 IN.
Aspect Ratio	4.84	4.84
Rate of Taper	-	-
Taper Ratio	.517	.517
Diehedral Angle, degrees	0	0
Incidence Angle, degrees	0	0
Aerodynamic Twist, degrees	0	0
Toe-In Angle	0	0
Cant Angle	0	0
Sweep Back Angles, degrees		
Leading Edge	25.0°	25.0°
Trailing Edge	11.5°	11.5°
0.25 Element Line	21.8°	21.8°
Chords:		
Root (Wing Sta. 0.0)	217.5 IN.	8.70 IN.
Tip, (equivalent)	112.5 IN.	4.50 IN.
MAC	170.5 IN.	6.82 IN.
Fus. Sta. of .25 MAC	1654 IN.	66.16 IN.
W.P. of .25 MAC	200 IN.	8.00 IN.
B.L. of .25 MAC	178.3 IN.	7.13 IN.
Airfoil Section		
Root	0012-64	0012-64
Tip	0012-64	0012-64
EXPOSED DATA		
Area	690.5 FT²	159.08 IN.²
Span, (equivalent)	642.5 IN.	25.70 IN.
Aspect Ratio	4.15	4.15
Taper Ratio	.571	.571
Chords		
Root	197 IN.	7.88 IN.
Tip	112.5 IN.	4.50 IN.
MAC	158.5 IN.	6.34 IN.
Fus. Sta. of .25 MAC	1672.3 IN.	66.89 IN.
W.P. of .25 MAC	200.0 IN.	8.00 IN.
B.L. of .25 MAC	223.8 IN.	8.95 IN.

TABLE VII

MODEL COMPONENT: VERTICAL TAIL ~ LCR ORBITER VI

GENERAL DESCRIPTION: RUDDER SURFACE INCLUDED

DRAWING NUMBER: STS 03329

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
TOTAL DATA		
Area		
Planform	715.5 FT²	164.85 IN²
Wetted	-	-
Span (equivalent)	366 IN.	14.64 IN.
Aspect Ratio	1.30	1.30
Rate of Taper	-	-
Taper Ratio	.470	.470
Diehedral Angle, degrees	0	0
Incidence Angle, degrees	0	0
Aerodynamic Twist, degrees	0	0
Toe-In Angle	0	0
Cant Angle	0	0
Sweep Back Angles, degrees		
Leading Edge	45.0°	45.0°
Trailing Edge	24.0°	24.0°
0.25 Element Line	40.7°	40.7°
Chords:		
Root	383 IN.	15.32 IN.
Tip; (equivalent)	180 IN.	7.20 IN.
MAC	293.8 IN.	11.75 IN.
Fus. Sta. of .25 MAC	1601.5 IN.	64.06 IN.
W.P. of .25 MAC	672.5 IN.	26.90 IN.
B.L. of .25 MAC	0	0.0
Airfoil Section		
Root	0012-64	0012-64
Tip	0012-64	0012-64
EXPOSED DATA		
Area	715.5 FT²	164.85 IN²
Span, (equivalent)	366 IN.	14.64 IN.
Aspect Ratio	1.30	1.30
Taper Ratio	.470	.470
Chords		
Root	383 IN.	15.32 IN.
Tip	180 IN.	7.20 IN.
MAC	293.8 IN.	11.75 IN.
Fus. Sta. of .25 MAC	1601.5 IN.	64.06 IN.
W.P. of .25 MAC	672.5 IN.	26.91 IN.
B.L. of .25 MAC	0	0.0

TABLE VIII

MODEL COMPONENT: BODY FLAP ~ LCR ORBITER FB1

GENERAL DESCRIPTION:

FB2= FB1 WITH b/2 SHORTENED TO 2.75 INCHES MODEL SCALE

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	126.4 FT^2	29.12 $IN.^2$
Span (equivalent)	260 IN.	10.40 IN.
Inb'd equivalent chord	70 IN	2.80 IN
Outb'd equivalent chord	70 IN	2.80 IN
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	–	–
At Outb'd equiv. chord	–	–
Sweep Back Angles, degrees		
Leading Edge	0	0
Tailing Edge	0	0
Hingeline	0	0
Area Moment (Normal to hinge line)	368.9 FT^3	40.8 $IN.^3$

TABLE IX

MODEL COMPONENT: SPLIT FLAPS ~ LCR ORBITER F1

GENERAL DESCRIPTION: BODY FLAP NOT INCLUDED
CAMBERED AIRFOIL WING

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area*	264.5 FT^2	60.93 $IN.^2$
Span*(equivalent)	680 IN.	27.2 IN.
Inb'd equivalent chord	70 IN.	2.80 IN.
Outb'd equivalent chord	42 IN	1.68 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.300	.300
At Outb'd equiv. chord	.300	.300
Sweep Back Angles, degrees		
Leading Edge	2° 49'	2° 49'
Tailing Edge	-1° 26'	-1. 26'
Hingeline	2° 49'	2° 49'
Area Moment*(Normal to hinge line)	617.04 FT^3	68.24 IN^3

* TWO SURFACES

TABLE X

MODEL COMPONENT: SPLIT FLAPS - LCR ORBITER F2

GENERAL DESCRIPTION: BODY FLAP NOT INCLUDED
SYMMETRICAL AIRFOIL WING

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	304.7 FT^2	70.21 IN^2
Span (equivalent)	736 IN	29.44 IN.
Inb'd equivalent chord	74.5 IN	2.98 IN.
Outb'd equivalent chord	44.75 IN	1.79 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.300	0.300
At Outb'd equiv. chord	.300	0.300
Sweep Back Angles, degrees		
Leading Edge	3°20'	3°20'
Tailing Edge	1°20'	1°20'
Hingeline	3°20'	3°20'
Area Moment (Normal to hinge line)	757.1 FT^3	83.73 IN^3

TABLE XI

MODEL COMPONENT: AILERONS ~ LCR ORBITER A1

GENERAL DESCRIPTION: CAMBERED AIRFOIL WING

DRAWING NUMBER: STS 03331

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area*	62.76 FT²	14.46 IN.²
Span* (equivalent)	305 IN.	12.20 IN.
Inb'd equivalent chord	35 IN.	1.40 IN.
Outb'd equivalent chord	24.31 IN.	.971 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.250	.250
At Outb'd equiv. chord	.250	.250
Sweep Back Angles, degrees		
Leading Edge	2°28'	2°28'
Tailing Edge	-1°26'	-1°26'
Hingeline	2°28'	2°28'
Area Moment* (Normal to hinge line)	77.5 FT³	8.57 IN.³

* TWO SURFACES

TABLE XII

MODEL COMPONENT: AILERONS - LCR ORBITER A2

GENERAL DESCRIPTION: SYMMETRICAL AIRFOIL WING

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area *	72.57 FT^2	16.72 IN.^{2}
Span (equivalent)*	322.5 IN.	13.18 IN.
Inb'd equivalent chord	37 IN.	1.48 IN.
Outb'd equivalent chord	25.8 IN.	1.03 IN.
Ratio movable surface cnord/ total surface chord		
At Inb'd equiv. chord	0.25	0.25
At Outb'd equiv. chord	0.25	0.25
Sweep Back Angles, degrees		
Leading Edge	2°0'	2°0'
Tailing Edge	1°20'	1°20'
Hingeline	2°0'	2°0'
Area Moment (Normal to hinge line)	94.95 FT^3	10.49 IN.^{3}

* TWO SURFACES

TABLE XIII

MODEL COMPONENT: SPOILER ~ LCR ORBITER SP1

GENERAL DESCRIPTION: CAMBERED AIRFOIL WING

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	58.9 FT²	13.58 IN.²
Span (equivalent)	620 IN.	24.8 IN.
Inb'd equivalent chord	93.75 IN	1.35 IN.
Outb'd equivalent chord	21 IN	.84 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		.150
At Outb'd equiv. chord		.150
Sweep Back Angles, degrees		
Leading Edge		4° 34'
Tailing Edge		7° 13'
Hingeline		4° 34'
Area Moment (Normal to hinge line)	67.2 FT³	7.43 IN³

TABLE XIV

MODEL COMPONENT: SPOILER - LCR ORBITER SP2

GENERAL DESCRIPTION:

SYMMETRICAL AIRFOIL WING

SP3 = SP2 EXTENDED TO WING TIP

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	130.9 FT^2	30.15 $IN.^2$
Span (equivalent)	652.5 IN.	26.10 IN.
Inb'd equivalent chord	35.5 IN	1.42 IN.
Outb'd equivalent chord	22.5 IN	0.89 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.15	0.150
At Outb'd equiv. chord	.15	0.150
Sweep Back Angles, degrees		
Leading Edge	4° 7'	4° 7'
Tailing Edge	1° 47'	1° 47'
Hingeline	4° 7'	4° 7'
Area Moment (Normal to hinge line)	157.4 FT^3	17.41 $IN.^3$

TABLE XV

MODEL COMPONENT: ELEVATOR ~ LCR ORBITER ER1

GENERAL DESCRIPTION: _____

DRAWING NUMBER: STS 03330

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area*	382 FT²	88.02 IN²
Span* (equivalent)	642.5 IN.	25.70 IN
Inb'd equivalent chord	100.8 IN.	4.03 IN.
Outb'd equivalent chord	70.5 IN.	2.82 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.511	.511
At Outb'd equiv. chord	.627	.627
Sweep Back Angles, degrees		
Leading Edge	16.5°	16.5°
Tailing Edge	11.5°	11.5°
Hingeline	16.5°	16.5°
Area Moment* (Normal to hinge line)	1363 FT³	150.73 IN³

* TWO SURFACES

TABLE XVI

MODEL COMPONENT: RUDDER ~ LCR ORBITER RI

GENERAL DESCRIPTION: _____

DRAWING NUMBER: _____

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	214.5 FT²	49.41 IN²
Span (equivalent)	366 IN.	14.64 IN.
Inb'd equivalent chord	115 IN.	4.60 IN.
Outb'd equivalent chord	53.8 IN.	2.15 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.300	.300
At Outb'd equiv. chord	.299	.299
Sweep Back Angles, degrees		
Leading Edge	31.5°	31.5°
Tailing Edge	24.0°	24.0°
Hingeline	31.5°	31.5°
Area Moment (Normal to hinge line)	2149 FT³	83.38 IN³

TABLE XVII

MODEL COMPONENT: FUSELAGE SPEED BRAKE SB1 & SB2

GENERAL DESCRIPTION: —

DRAWING NUMBER: —

DIMENSIONS:	FULL-SCALE	MODEL SCALE 4%
Area	75.1 FT^2	17.31 $IN.^2$
Span (equivalent)	104.0 IN	4.16 IN.
Inb'd equivalent chord	104.0 IN.	4.16 IN.
Outb'd equivalent chord	104.0 IN.	4.16 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	—	—
At Outb'd equiv. chord	—	—
Sweep Back Angles, degrees		
Leading Edge	—	—
Tailing Edge	—	—
Hingeline	—	—
Area Moment (Normal to hinge line)	325.5 FT^3	36.00 $IN.^3$

NOMENCLATURE

SYMBOL	SADSAC SYMBOL	DEFINITION
A_b		base area; m^2, ft^2, in^2
a		speed of sound; m/sec, ft/sec
AR	ASPECT	aspect ratio, b^2/S
b	REFB	wing span or reference span; m, ft, in
c		wing chord; m, ft, in
$\bar{c}$		wing mean aerodynamic chord or reference chord; m, ft, in (see ℓ_{ref} or refl)
c. g.		center of gravity
C. P.		center of pressure
C_A	CA	axial force coefficient, F_A/qS_{ref}
C_{A_b}	CAB	base axial force coefficient, $[(p_\infty - p_b)/q]$ (A_b/S_{ref})
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_D	CDTOTL	drag force coefficient in the wind axis system, $F_D/q\,S_{ref}$

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
C'_D	CD	drag force coefficient in the stability axis system, $F'_D/q\,S_{ref}$
C_L	CL	lift force coefficient (stability or wind axis) $F_L/q\,S_{ref}$
C_ℓ	CBL	rolling moment coefficient in body axis system, $M_x/q\,S_{ref}\,b$
$C_{\ell,s}$	CSL	rolling moment coefficient in the stability axis system, $M_{x,s}/q\,S_{ref}\,b$
$C_{\ell,w}$	CWL	rolling moment coefficient in the wind axis system, $M_{x,w}/q\,S_{ref}\,b$
C_m	CLM	pitching moment coefficient in the body axis system, $M_y/q\,S_{ref}\,\ell_{ref}$
$C_{m,s}$	CLM	pitching moment coefficient in the stability axis system, $C_{m,s} = C_m$
$C_{m,w}$	CPM	pitching moment coefficient in the wind axis system, $M_{y,w}/q\,S_{ref}\,\ell_{ref}$
C_N	CN	normal force coefficient in the body axis system, $F_N/q\,S_{ref}$

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
C_n	CYN	yawing moment coefficient in the body axis system, $M_z/q\,S_{ref}\,b$
$C_{n,s}$	CLN	yawing moment coefficient in the stability axis system, $C_{n,s} = C_n$
$C_{n,w}$	CLN	yawing moment coefficient in the wind axis system, $M_{z,w}/q\,S_{ref}\,b$
C_p	CP	pressure coefficient, $(p-p_\infty)/q$
C_y	CY	side force coefficient (body or stability axis system), $F_y/q\,S_{ref}$
C_c	CC	side force coefficient (wind axis system), $F_y/q\,S_{ref}$
F_A		axial force; N, lb
F_D		drag force in wind axis system; N, lb
F'_D		drag force in the stability axis system; N, lb
F_L		lift force (stability or wind axis system); N, lb
F_N		normal force; N, lb

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
F_Y		side force; N, lb
	N/A	normal to axial force ratio
ℓ_{ref}	REFL	reference length; m, ft, in (see $\bar{c}$)
L/D	L/D	lift-to-drag ratio, C_L/C_D (stability axis system)
L/D	CL/CD	lift-to-drag ratio, C_L/C_D (wind axis system)
M	MACH	Mach number
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on x-axis
	YMRP	abbreviation for moment reference point on y-axis
	ZMRP	abbreviation for moment reference point on z-axis
M_x		rolling moment in the body axis system; N-m, ft-lb
$M_{x,s}$		rolling moment in the stability axis system; N-m, ft-lb

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
$M_{x,w}$		rolling moment in the wind axis system; N-m, ft-lb
M_y		pitching moment in the body (or stability) axis system; N-m, ft-lb
$M_{y,w}$		pitching moment in the wind axis system; N-m, ft-lb
M_z		yawing moment in the body axis system; N-m, ft-lb
$M_{z,w}$		yawing moment in the wind axis system; N-m, ft-lb
p		static pressure; N/m^2; psi
P		total pressure; N/m^2; psi
q	Q(PSI) Q(PSF)	dynamic pressure; N/m^2, psi, psf
RN/L	RN/L	Reynold's number per unit length; million/ft.
S		wing area; m^2, ft^2
S_{ref}	REFS	reference area; m^2, ft^2
T		temperature; °K, °C, °R, °F
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
i_T		tail incidence positive when trailing edge down, deg
$\bar{V}$		velocity of vehicle relative to surrounding atmosphere; m/sec, ft/sec
α	ALPHA	angle of attack, angle between the projection of the wind X_w-axis on the body X, Z-plane and the body X-axis; deg
β	BETA	sideslip angle, angle between the wind X_w-axis and the projection of this axis on the body X-Z-plane; deg
γ		ratio of specific heats
Γ	DIHDRL	wing dihedral angle; deg
δ		control surface deflection angle; deg positive deflections are:
	AILRON	aileron - left aileron trailing edge down
	ELEVTR	elevator - trailing edge down
	RUDDER	rudder - trailing edge to the left
	FLAP	flap - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
ρ		air density; K_g/m^3, slugs/ft^3

NOMENCLATURE (continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
θ		pitch angle, angle of rotation about the body Y-axis, positive when the positive Z-axis is rotated toward the positive X-axis; deg
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; deg
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; deg

NOMENCLATURE (continued)

SUBSCRIPTS	DEFINITION
a	aileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	stability axis system
t	tail, or total conditions
w	wind axis system
ref	reference conditions
∞	freestream condition

ADDITIONS TO SADSAC NOMENCLATURE
FOR
MCAIR LSWT TEST 237

SYMBOL	SADSAC SYMBOL	DEFINITION
Pe/Po	PE/PO	power setting pressure ratio, ratio of engine pressure to free stream static pressure
	RHOB	right hand outboard engine
		Code — Definition
		0 - denotes no airflow through engine from the auxiliary air supply system
		1 - denotes airflow through engine from the auxiliary air supply system
	RHIB	right hand inboard engine
		Code — Definition
		0 - denotes no airflow through engine from the auxiliary air supply system
		1 - denotes airflow through engine from the auxiliary air supply system
FB	FLAP,B	body flap deflection angle, positive trailing edge down, degrees
$i_{T,\ H}$	HTAIL	tail incidence; positive when trailing edge down, degrees
δ_{SP}	SPOILR	symmetrical wing spoiler deflection angle; positive trailing edge up, degrees
	SP-L	left wing spoiler deflection angle; positive trailing edge up, degrees
	SP-R	right wing spoiler deflection angle; positive trailing edge up, degrees

ADDITIONS TO SADSAC NOMENCLATURE
FOR MCAIR LSWT TEST 237
(Continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{y_{\delta a}}$	DCY/DAILRON	side force due to aileron deflection. Algebraic sum of the side force coefficient of two runs divided by the algebraic sum of the aileron deflection angle of the runs; per degree.
$C_{n_{\delta_a}}$	DCYN/DAILRON	yawing moment due to aileron deflection. Algebraic sum of the yawing moment coefficient of two runs divided by the algebraic sum of the aileron deflection angle of the runs; per degree.
$C_{\ell_{\delta a}}$	DCBL/DAILRON	rolling moment due to aileron deflection. Algebraic sum of the rolling moment coefficient of two runs divided by the algebraic sum of the aileron deflection angle of the runs; per degree.
$C_{L_{i_T}}$	DCLDIT	incremental lift due to horizontal stabilizer deflection. Algebraic sum of two runs divided by the algebraic sum of the horizontal stabilizer deflection; per degree.
$C_{m_{i_T}}$	DCMDIT	incremental pitching moment due to horizontal stabilizer deflection. Algebraic sum of two runs divided by the algebraic sum of the horizontal stabilizer deflection; per degree.
$C_{L_{\delta e}}$	DCLDE	incremental lift due to elevator deflection. Algebraic sum of two runs divided by the algebraic sum of the elevator deflection; per degree.
$C_{m_{\delta e}}$	DCLMDE	incremental pitching moment due to elevator deflection. Algebraic sum of two runs divided by the algebraic sum of the elevator deflection; per degree.

ADDITIONS TO SADSAC NOMENCLATURE
FOR MCAIR LSWT TEST 237
(Continued)

SYMBOL	SADSAC SYMBOL	DEFINITION
$C_{y_{\delta_R}}$	DCYDR	incremental side force due to rudder deflection. Algebraic sum of two runs divided by the algebraic sum of the rudder deflection; per degree.
$C_{n_{\delta_R}}$	DCYNDA	incremental yawing moment due to rudder deflection. Algebraic sum of two runs divided by the algebraic sum of the rudder deflection; per degree.
$C_{\ell_{\delta_R}}$	DCBLDR	incremental rolling moment due to rudder deflection. Algebraic sum of two runs divided by the algebraic sum of the rudder deflection; per degree.
C_{y_β}	DCY/DBETA	side force derivative. Algebraic sum of the side force coefficient of two runs divided by the algebraic sum of the side slip angle of the runs; per degree
C_{n_β}	DCYN/DBETA	yawing moment derivative. Algebraic sum of the yawing moment coefficient of two runs divided by the algebraic sum of the side slip angle of the run; per degree
C_{ℓ_β}	DCBL/DBETA	rolling moment derivative. Algebraic sum of the rolling moment coefficient of two runs divided by the algebraic sum of the side slip angle of the runs; per degree

TABULATED DATA LISTING

A tabulated data listing, consisting of all aero data sets, both original and those created in arriving at the plotted material to be presented subsequently, is available as an addendum to this report. The tabular listing is made up in two sections:

(a) a brief summary list of all data sets containing the identifier, the descriptor, and the resident dependent variables.

(b) a full list of all data sets containing all resident or selected aerodynamic coefficients of the data sets as well as the above mentioned information.

The listing is currently sent on limited distribution to the following organizations:

NASA AMES	Mr. V. Stevens
NASA MSC	Mr. Ray Nelson
MDAC (East)	Mr. J. Hrenak

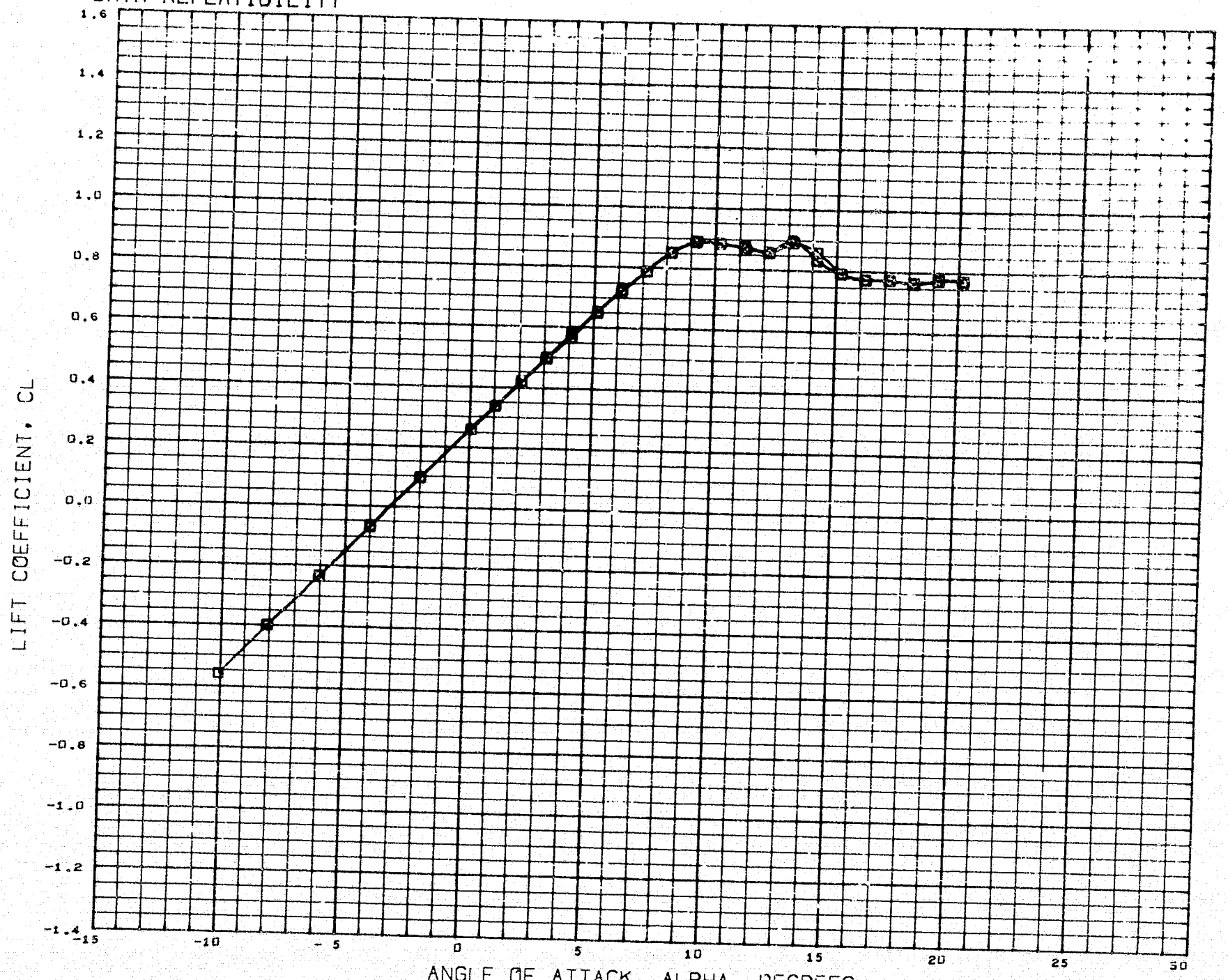
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

W. R. Morgan
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

PLOTTED DATA

DATA REPEATIBILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD040)	O	4.0 FC 01 LSWT 237 B4W2V1
(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

PARAMETRIC VALUES

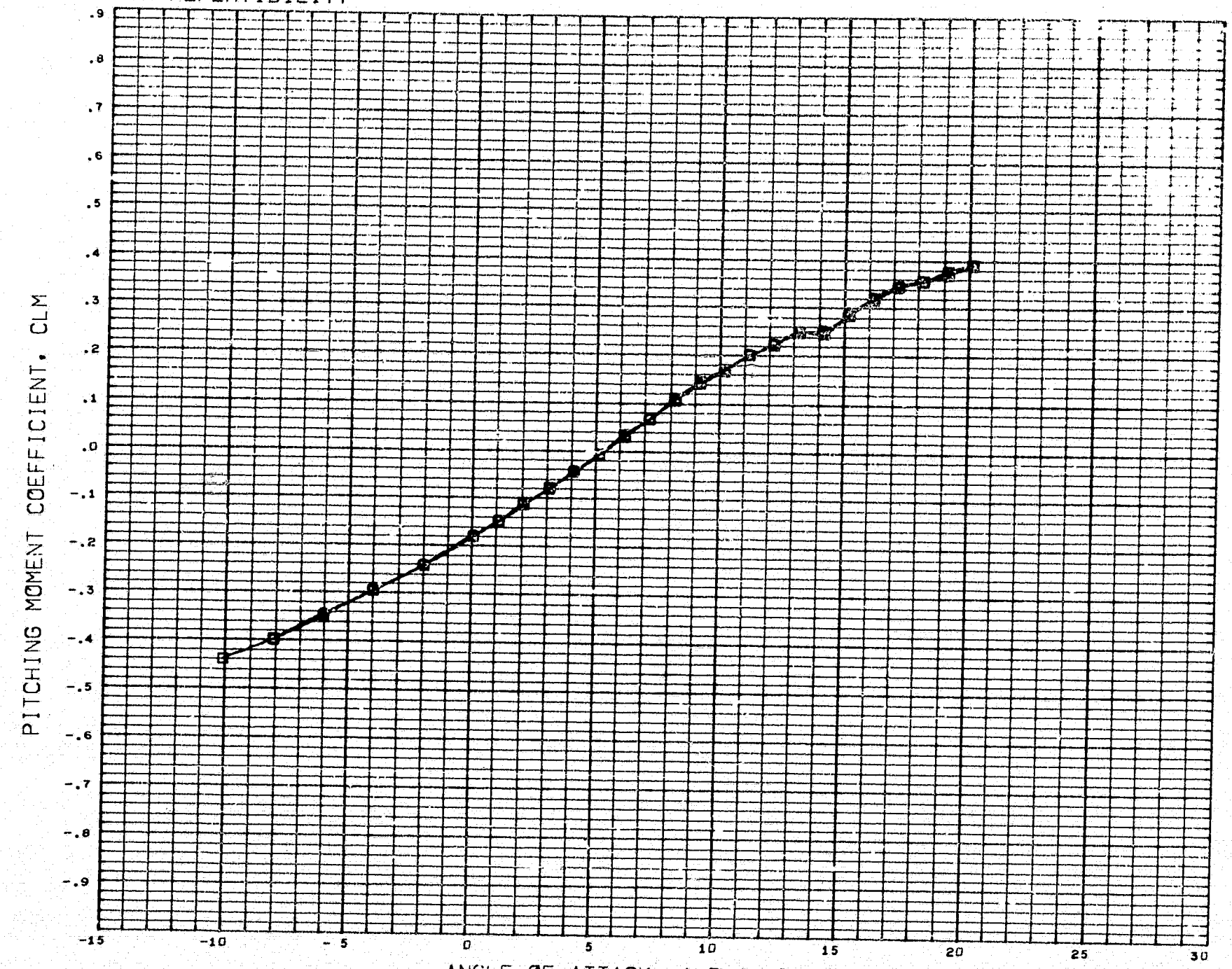
BETA 0.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9000	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



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(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

PARAMETRIC VALUES

BETA	0.000
ELEVTR	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

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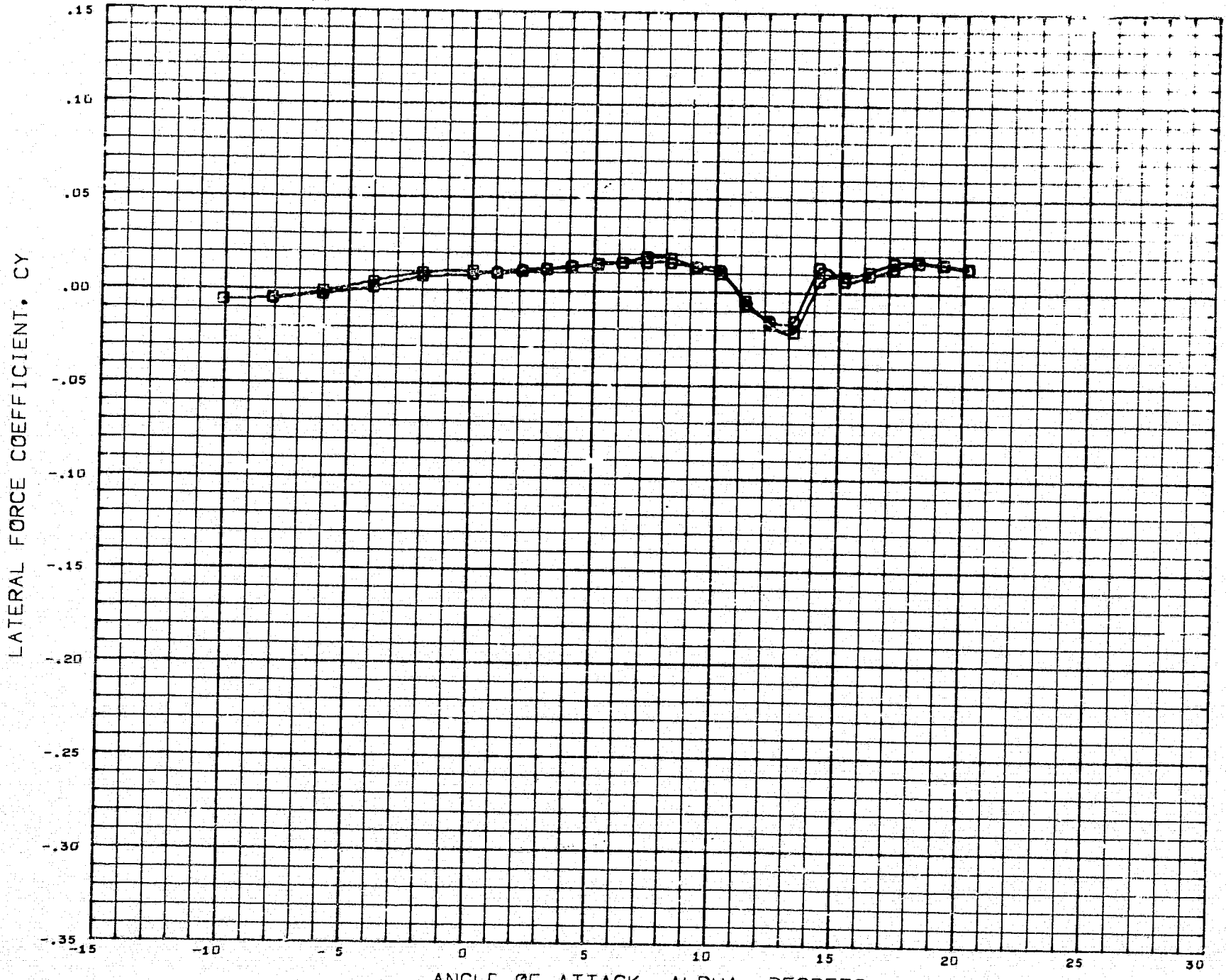

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(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

PARAMETRIC VALUES

BETA	0.000
ELEVTR	0.000

REFERENCE INFORMATION

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REFB	55.3800	IN.
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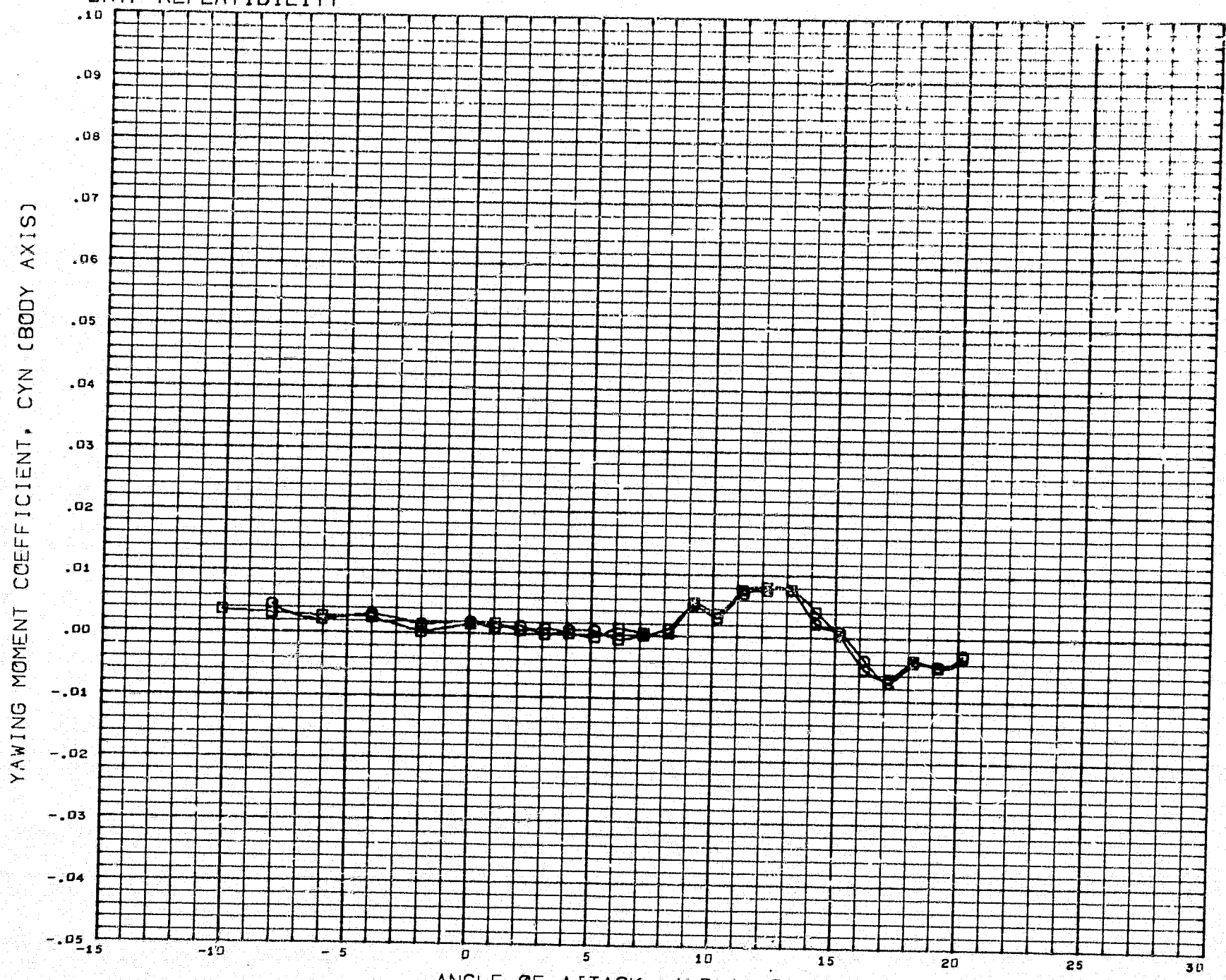

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(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

PARAMETRIC VALUES

BETA	0.000
ELEVTR	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

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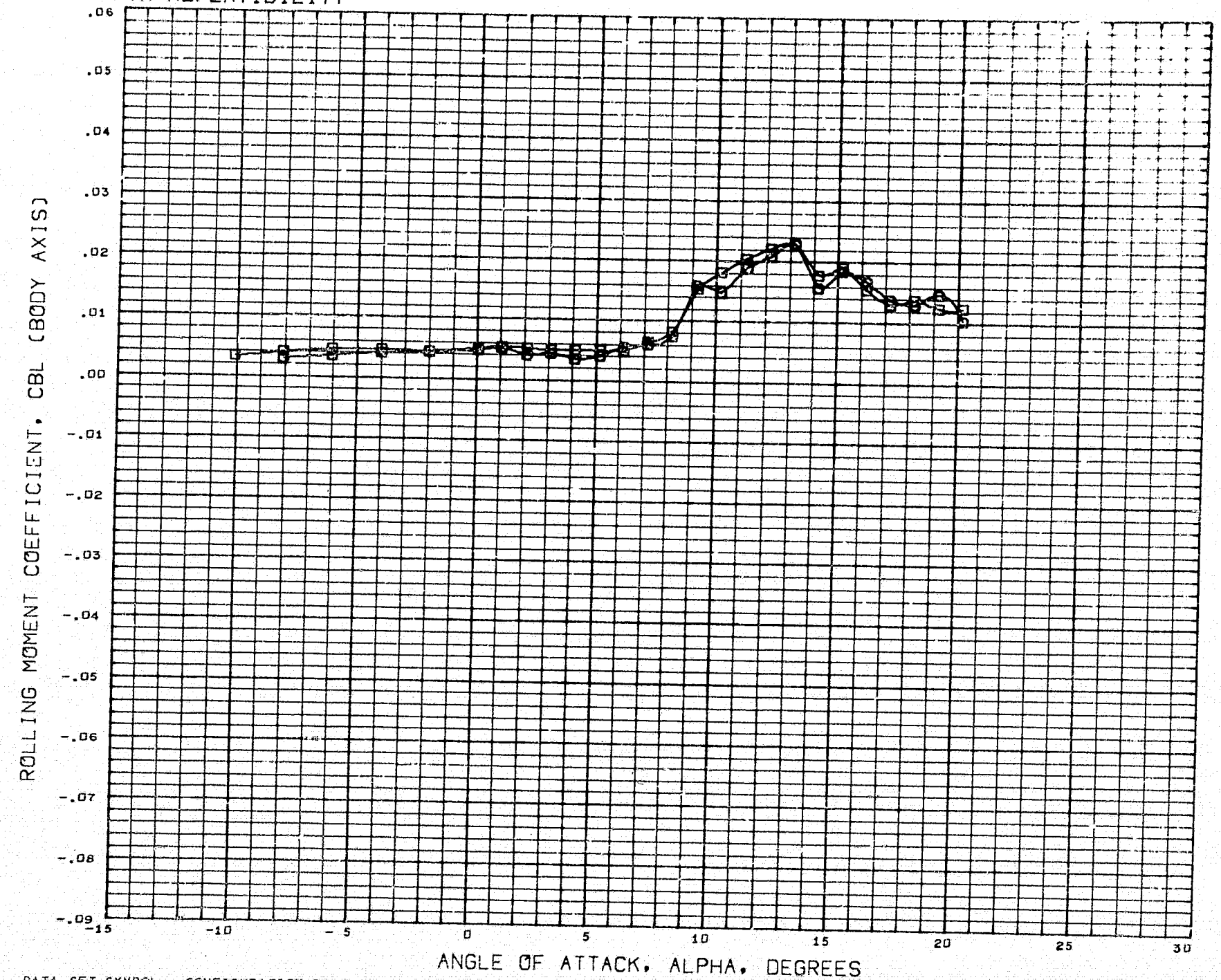

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(BCD040)	O	4.0 FC 01 LSWT 237 B1W2V1
(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

ELEVTR 0.000

PARAMETRIC VALUES

BETA 0.000

REFERENCE INFORMATION

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REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

PARAMETRIC VALUES

BETA	0.000
ELEVTR	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5100	IN.
REFB	55.3800	IN.
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SCALE	4.0000	PER CE

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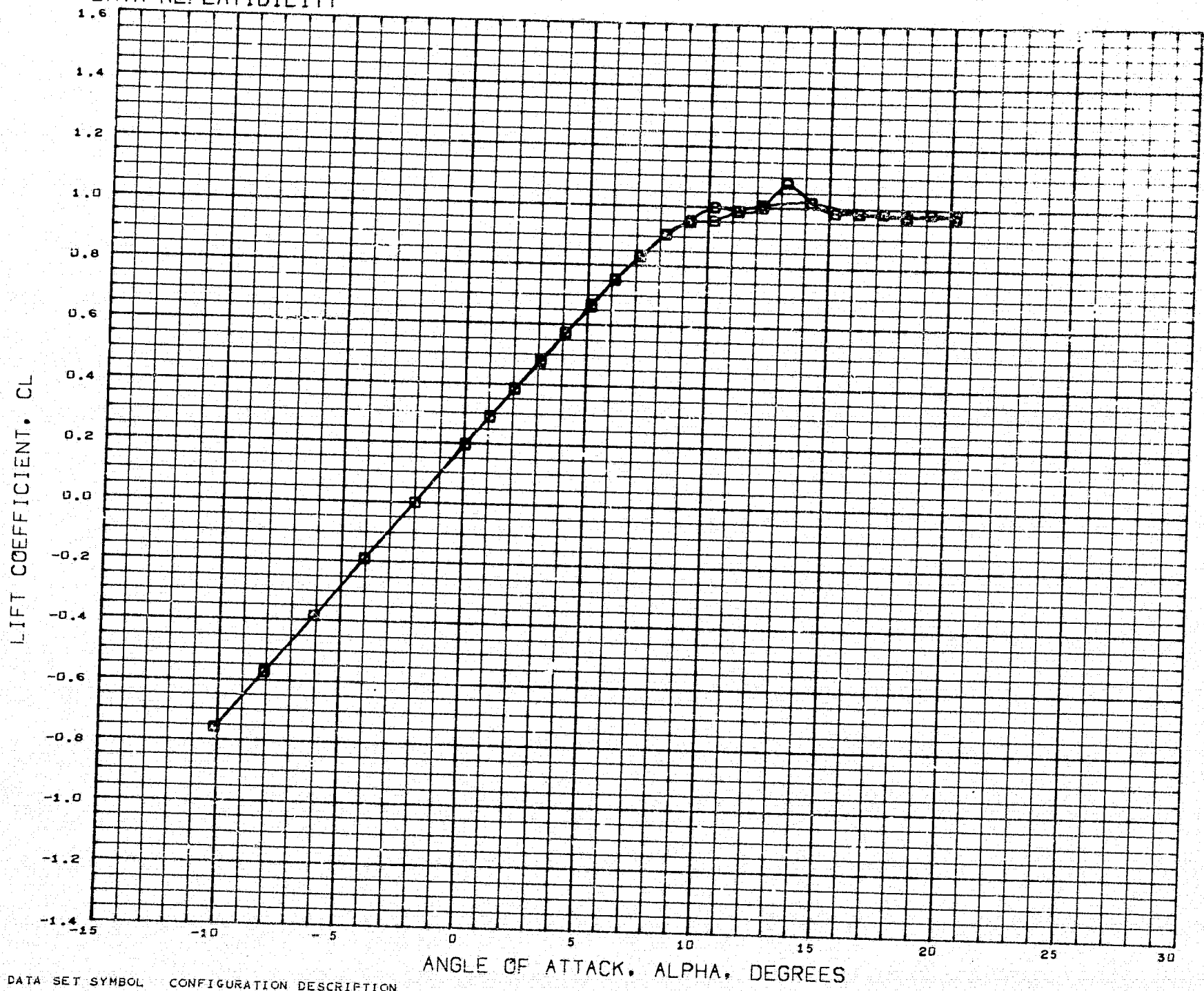

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(BCDA05)	□	4.0 FC 01 LSWT 237 B4W2V1H1

ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

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REFL	8.5150	IN.
REFB	55.3800	IN.
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SCALE	4.0000	PER CE

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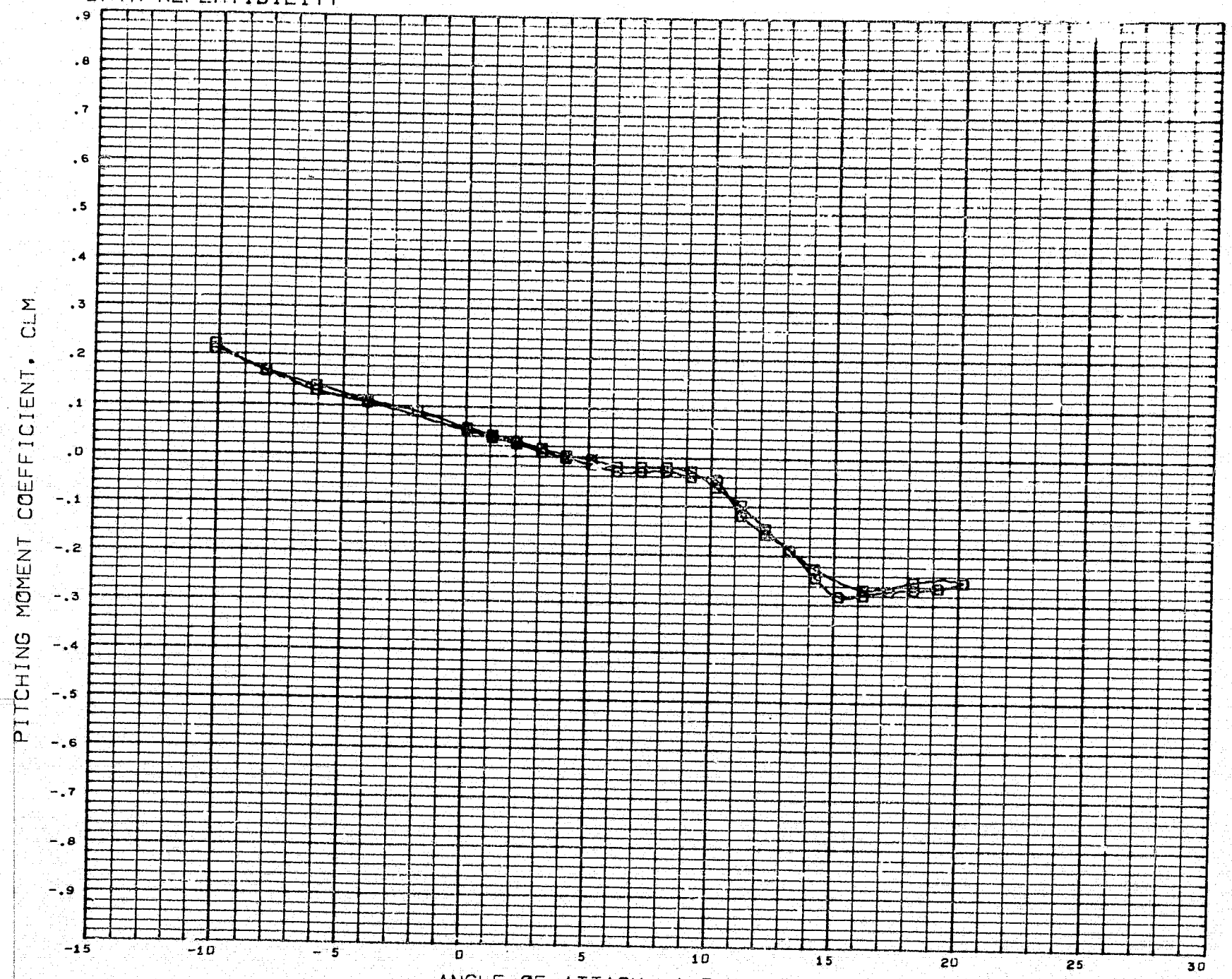

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(BCDA05)	□	4.0 FC 01 LSWT 237 B4W2V1H1

PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000	
SF-L	0.000	SF-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5101	IN.
REFB	55.3800	IN.
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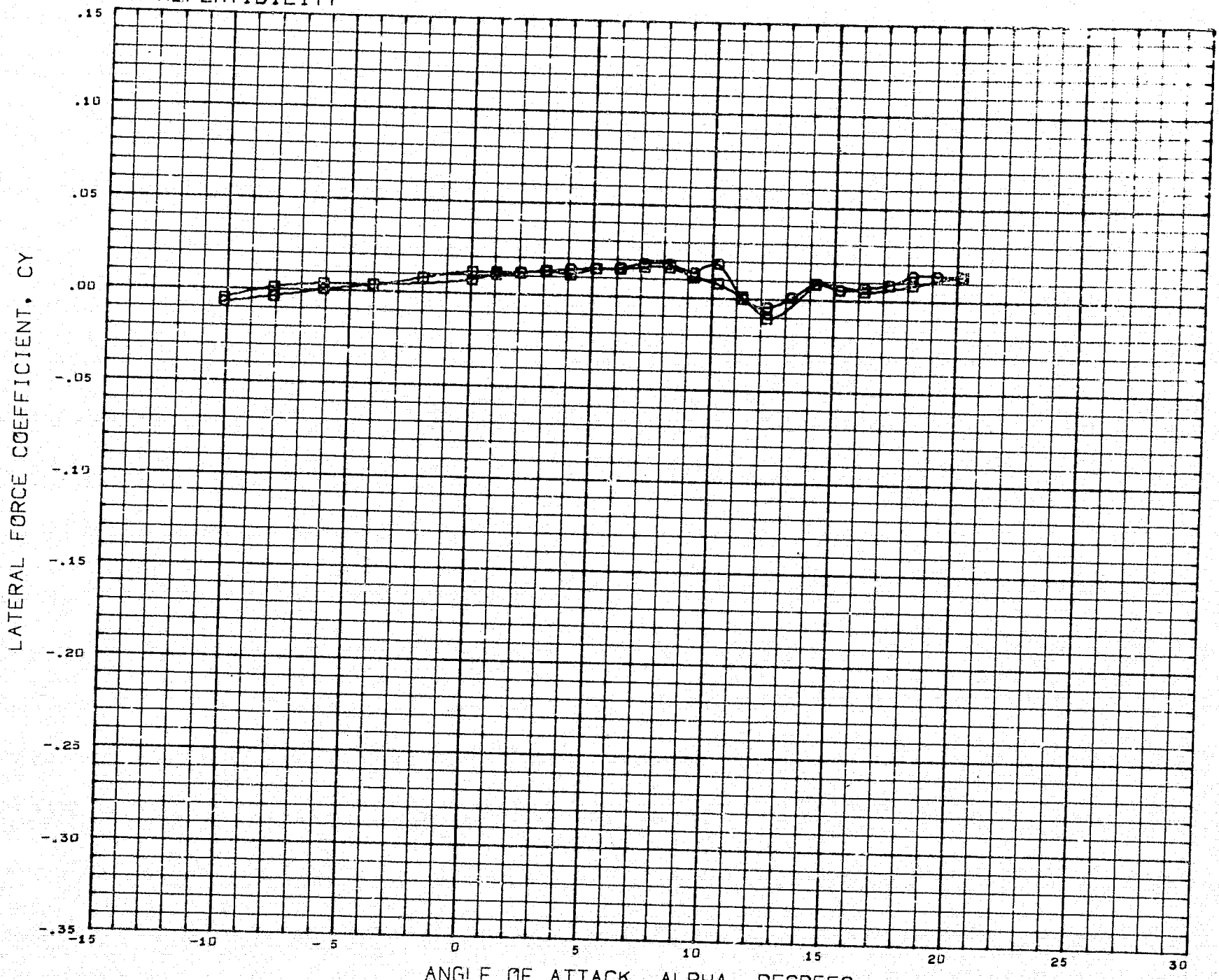
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVTR 0.000

DATA REPEATIBILITY



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(BCDA05)	□	4.0 PC 01 LSWT 237 B4W2V1H1

ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

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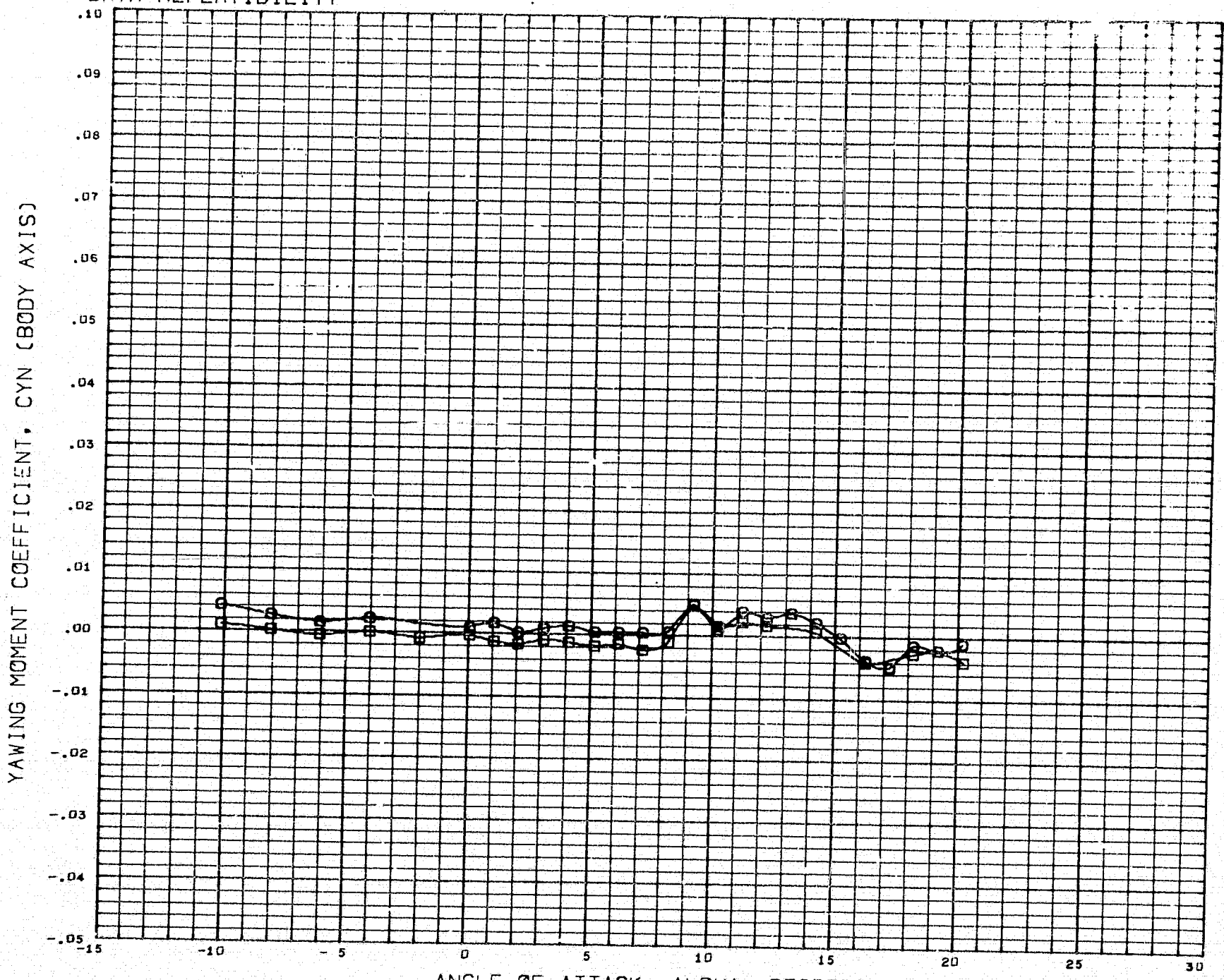

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PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

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REFL	8.5103	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
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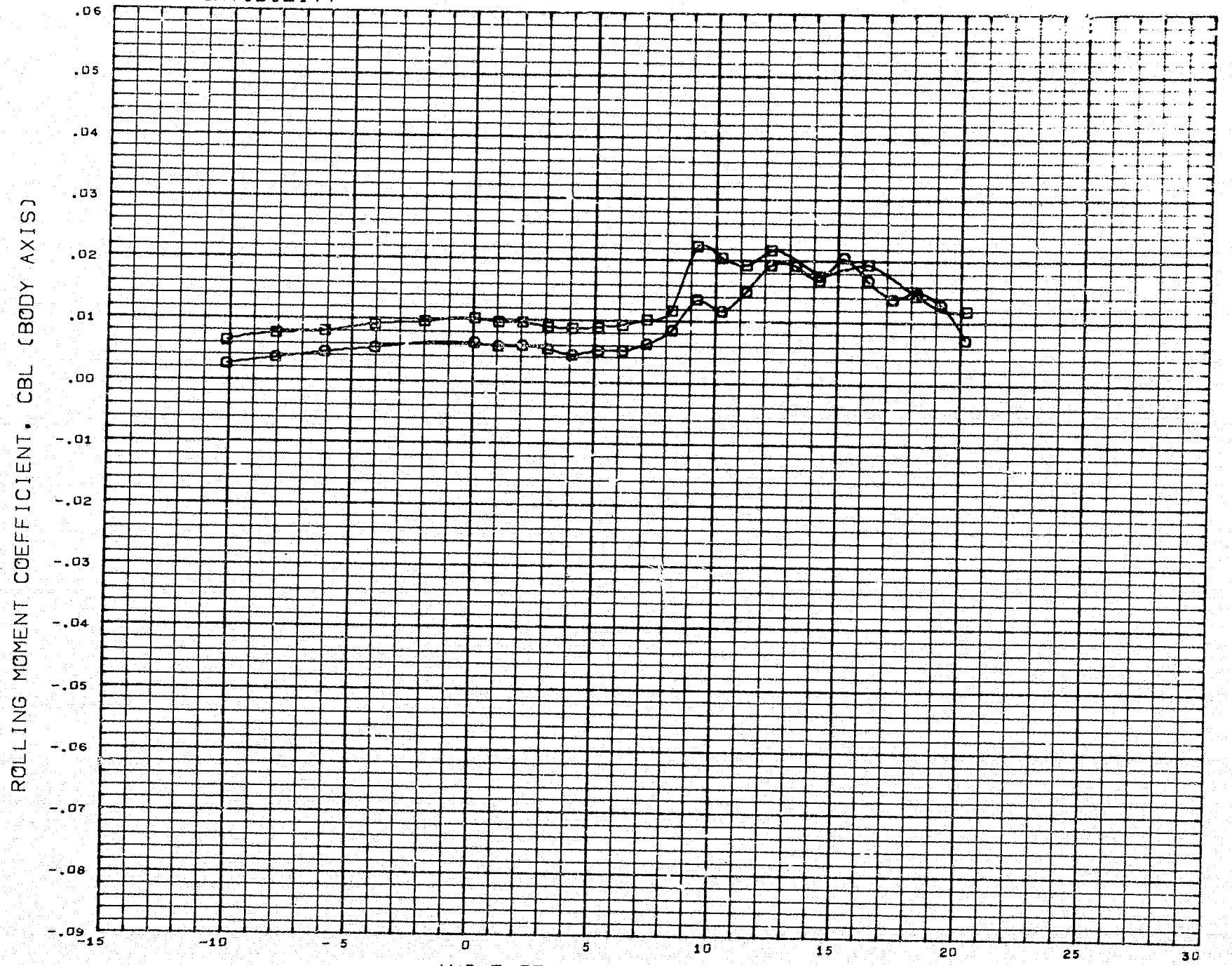
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVTR 0.000

DATA REPEATIBILITY



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(BCDA05)	□	4.0 PC 01 LSWT 237 B4W2V1H1

ELEVTR 0.000

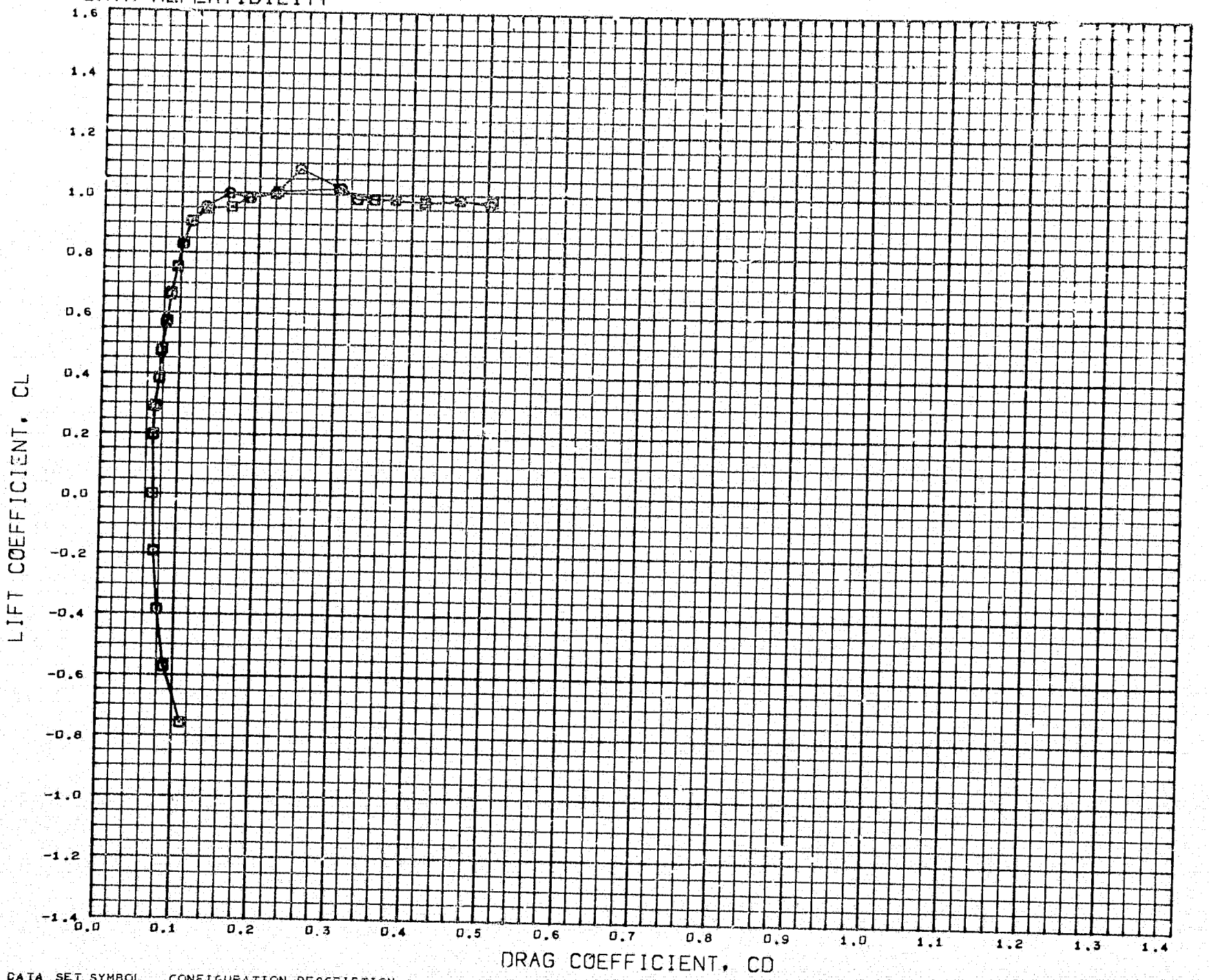
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000		
SF-L	0.000	SF-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5200	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



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(BCDA05)	□	4.0 PC 01 LSWT 237 B4W2V1H1

ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

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REFL	5.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
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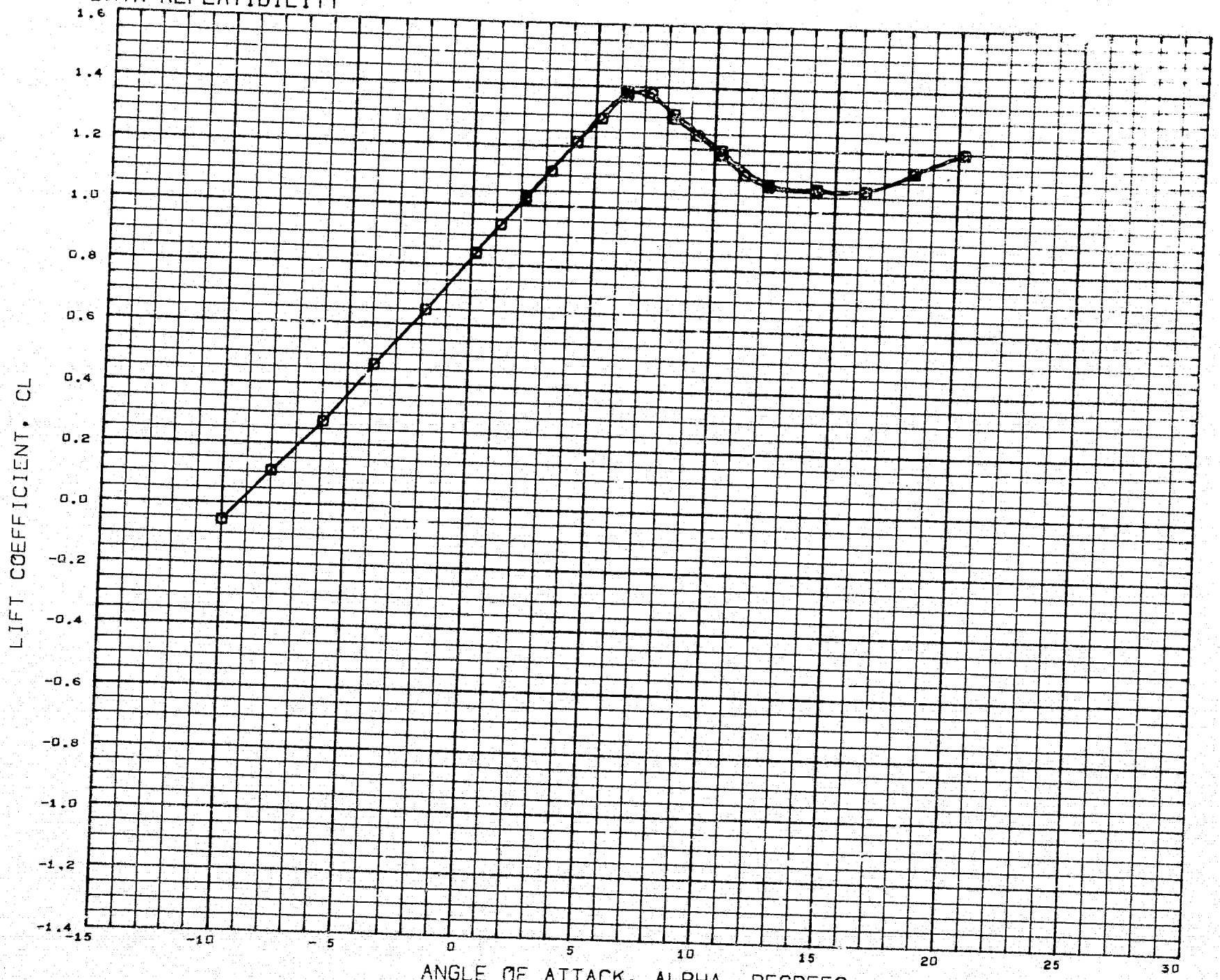
SCALE	4.0000	PER CE

DATA REPEATIBILITY



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(DCDA20)	O	4.0 PC 01 LSWT 237 B4W2V1H1F2G
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ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000
FLAP	45.000	SP-L	0.000
SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5170	IN.
REFB	55.3800	IN.
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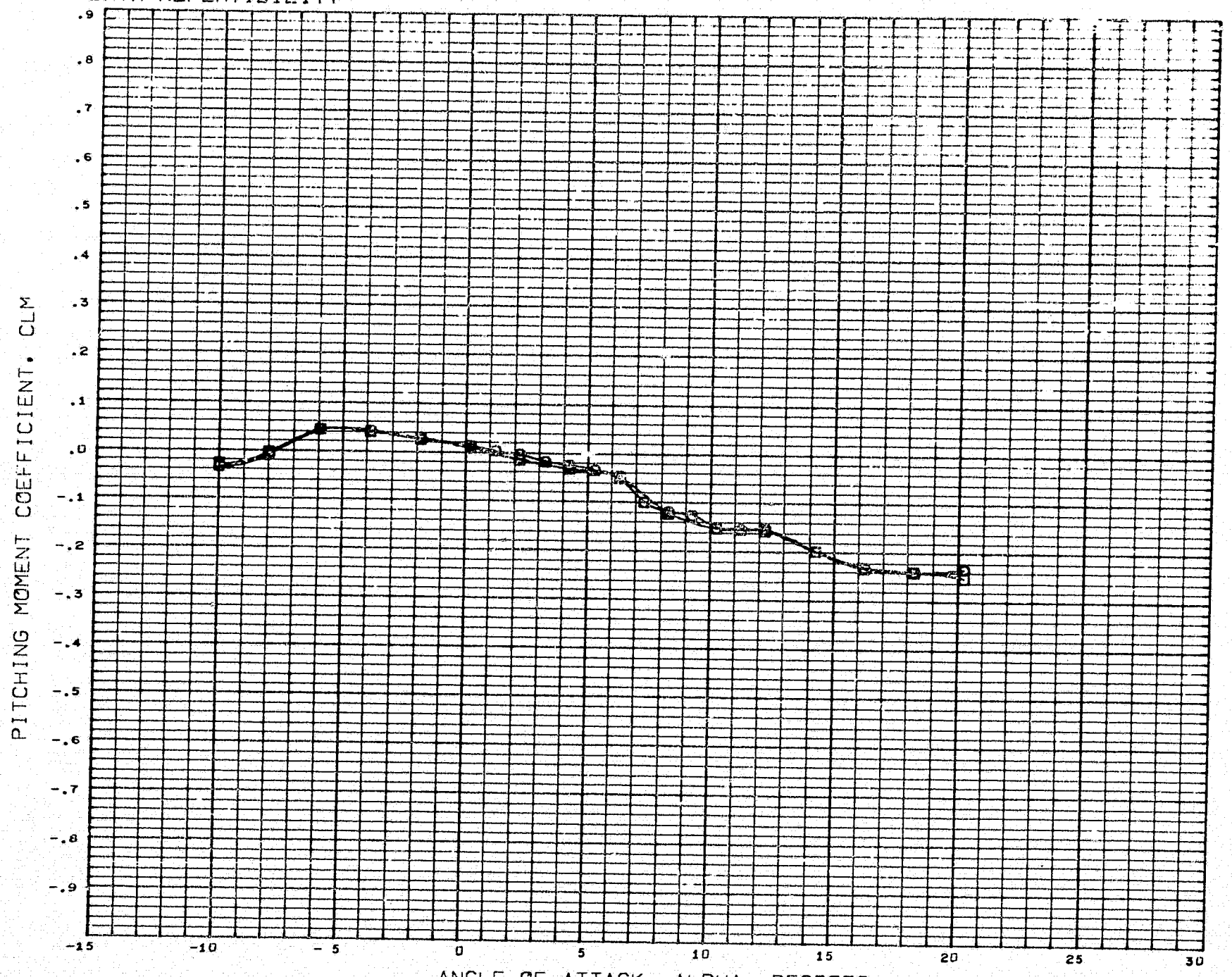
SCALE	4.0000	PER CE

DATA REPEATIBILITY



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ELEVTR 0.000

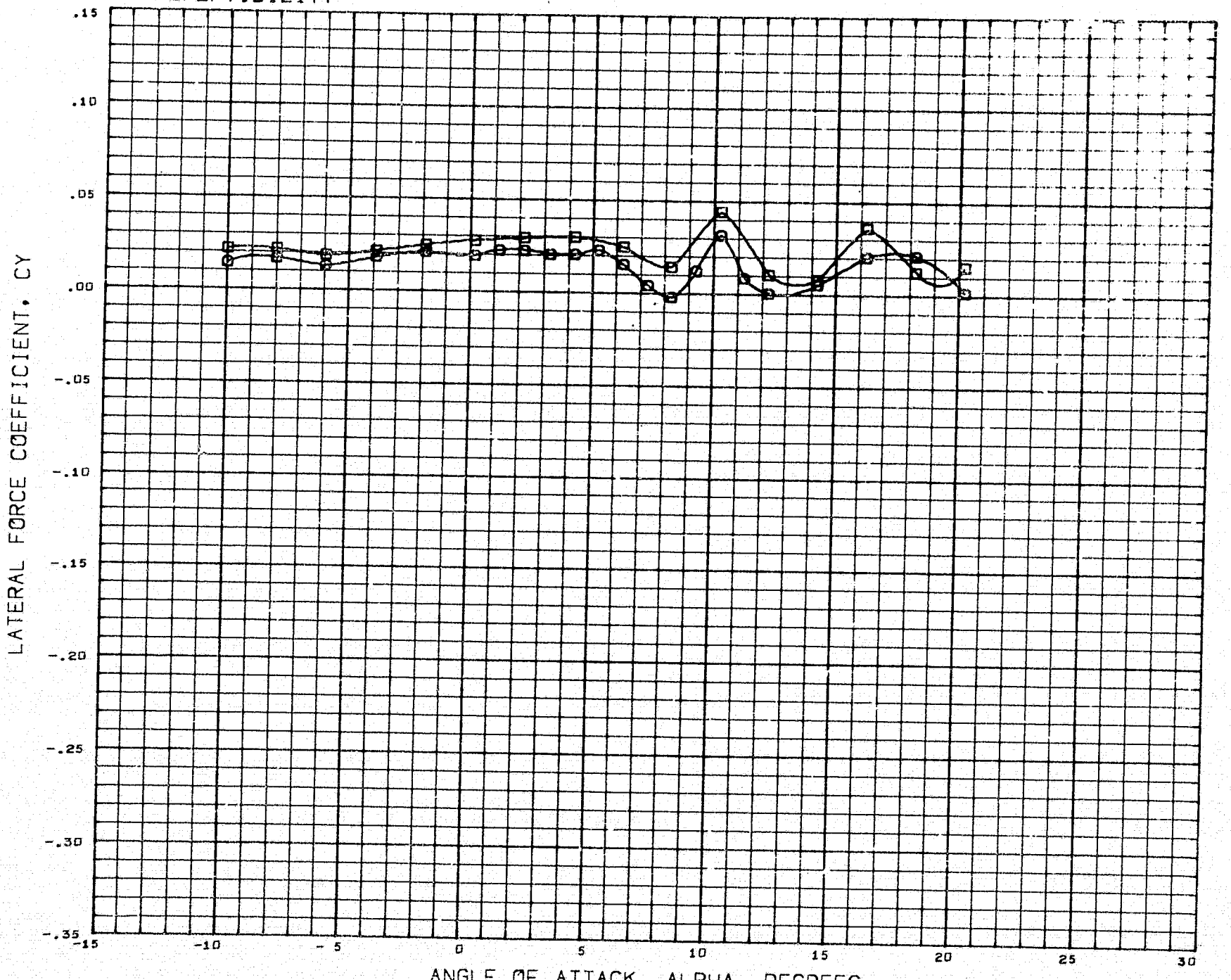
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
FLAP	45.000	SP-L	0.000
SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5300	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(DCDA20)	O	4.0 FC 01 LSWT 237 B4W2V1H1F20
(BCDA30)	□	4.0 FC 01 LSWT 237 B4W2V1H1F20

ELEVTR 0.000

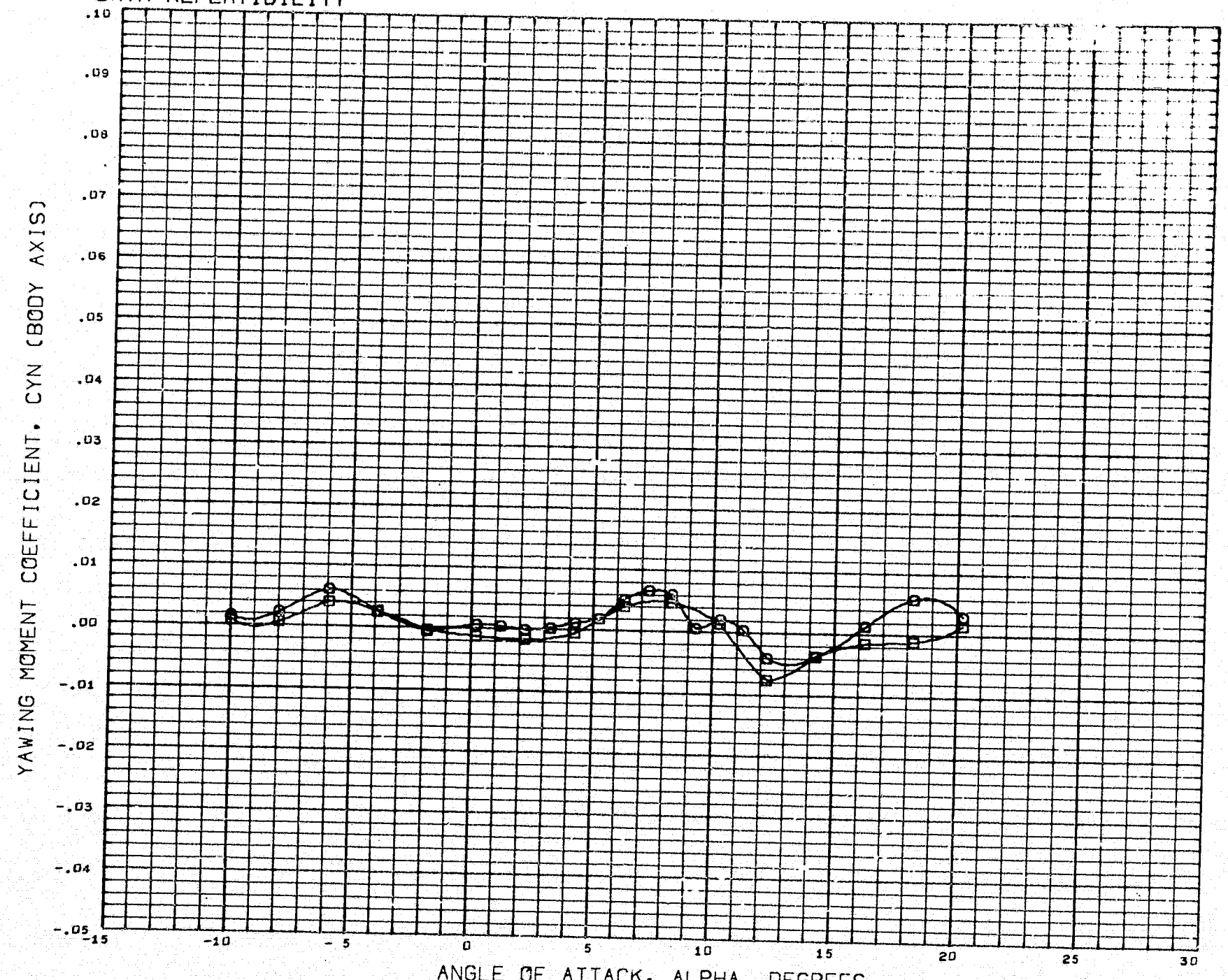
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
FLAP	45.000	SP-L	0.000
SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	9.5130	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(DCDA20)	O	4.0 FC 01 LSWT 237 B4W2V1H1F2G
(BCDA30)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

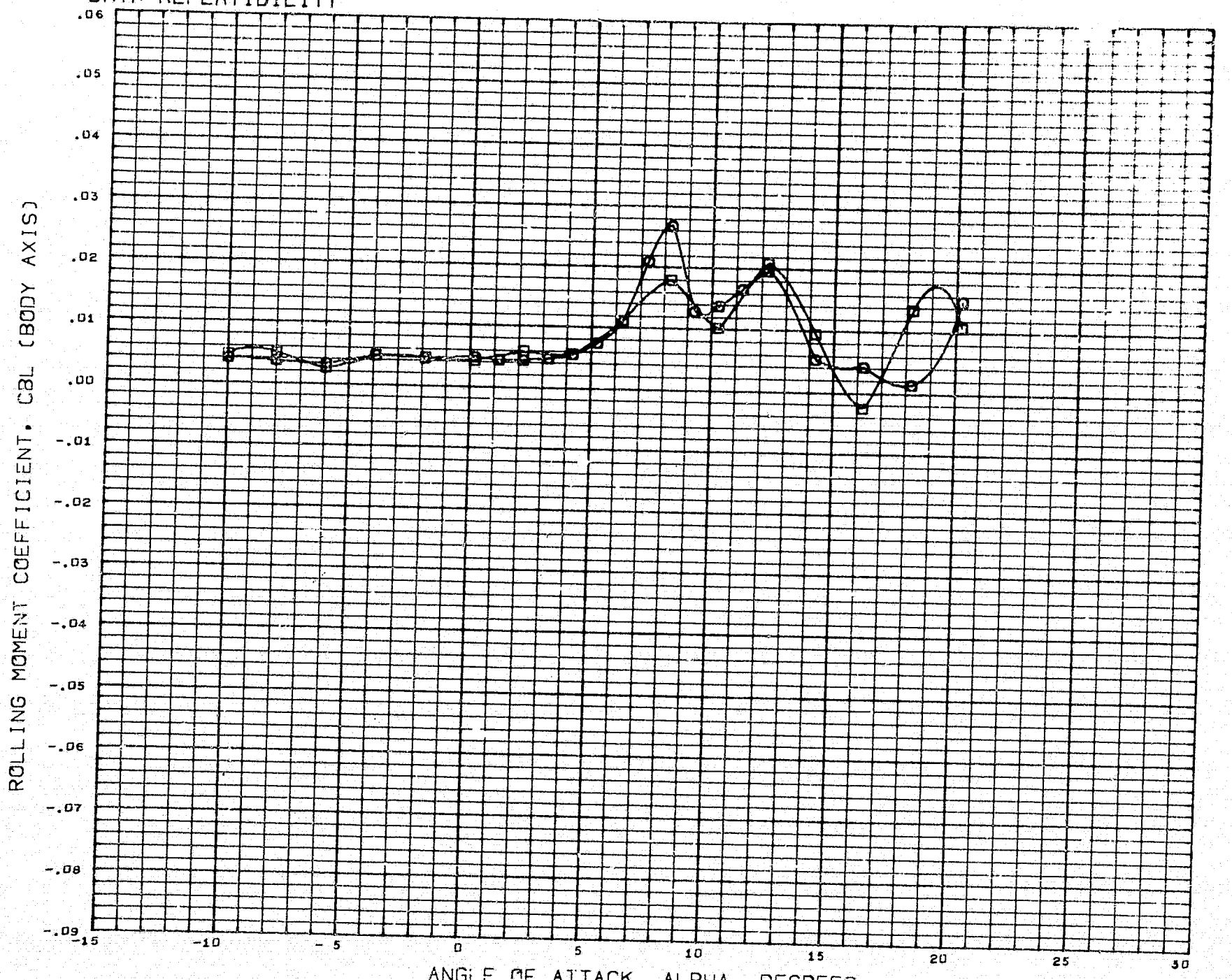
BETA	0.000	HTAIL	-	5.000	
FLAP	45.000	SP-L		0.000	
SP-R	0.000				

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.6400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA20)	O	4.0 FC 01 LSWT 237 B4W2V1H1F20
(BCDA30)	□	4.0 FC 01 LSWT 237 B4W2V1H1F20

PARAMETRIC VALUES

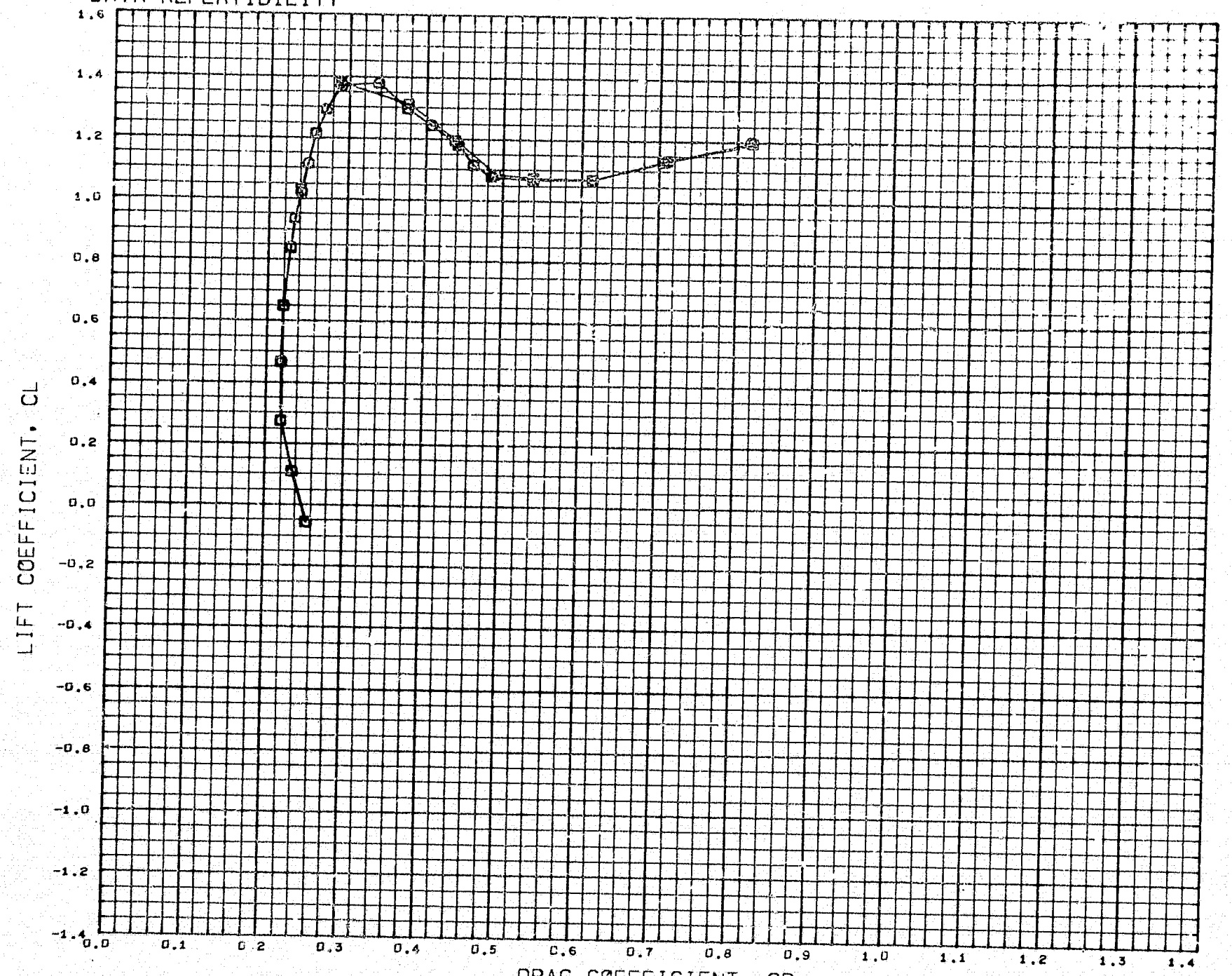
BETA	0.000	HTAIL	- 5.000
FLAP	45.000	SF-L	0.000
SF-R	0.000		

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA REPEATIBILITY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCDA2G)	O	4.0 FC 01 LSWT 237 B4W2V1H1F2G
(BCDA3G)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2G

ELEVTR 0.000

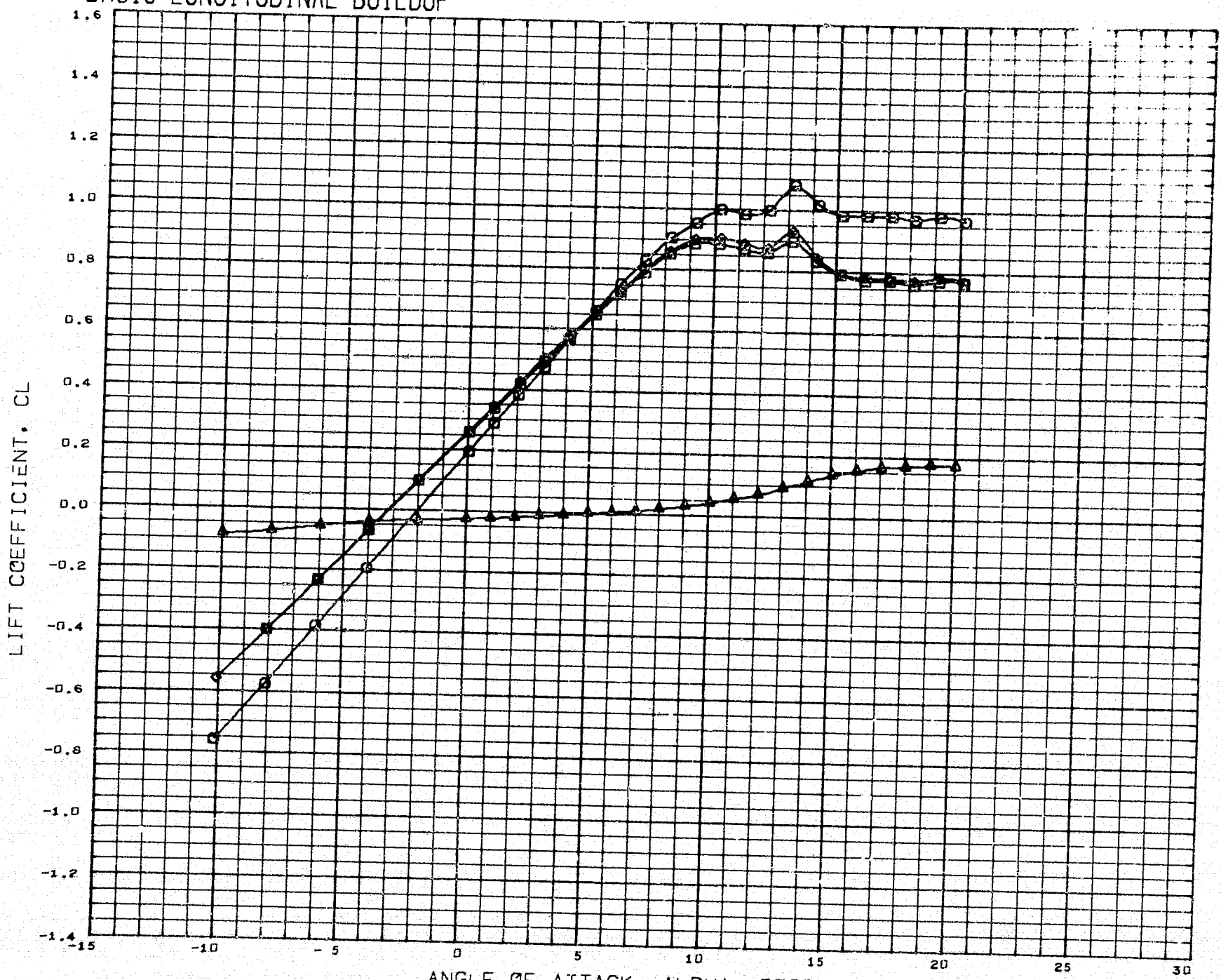
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
FLAP	45.000	SP-L	0.000
SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LONGITUDINAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(0CDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCD040)	□	4.0 PC 01 LSWT 237 B4W2V1
(BCD010)	◇	4.0 PC 01 LSWT 237 B4W2
(9CD000)	△	4.0 PC 01 LSWT 237 B4

ELEVTR 0.000

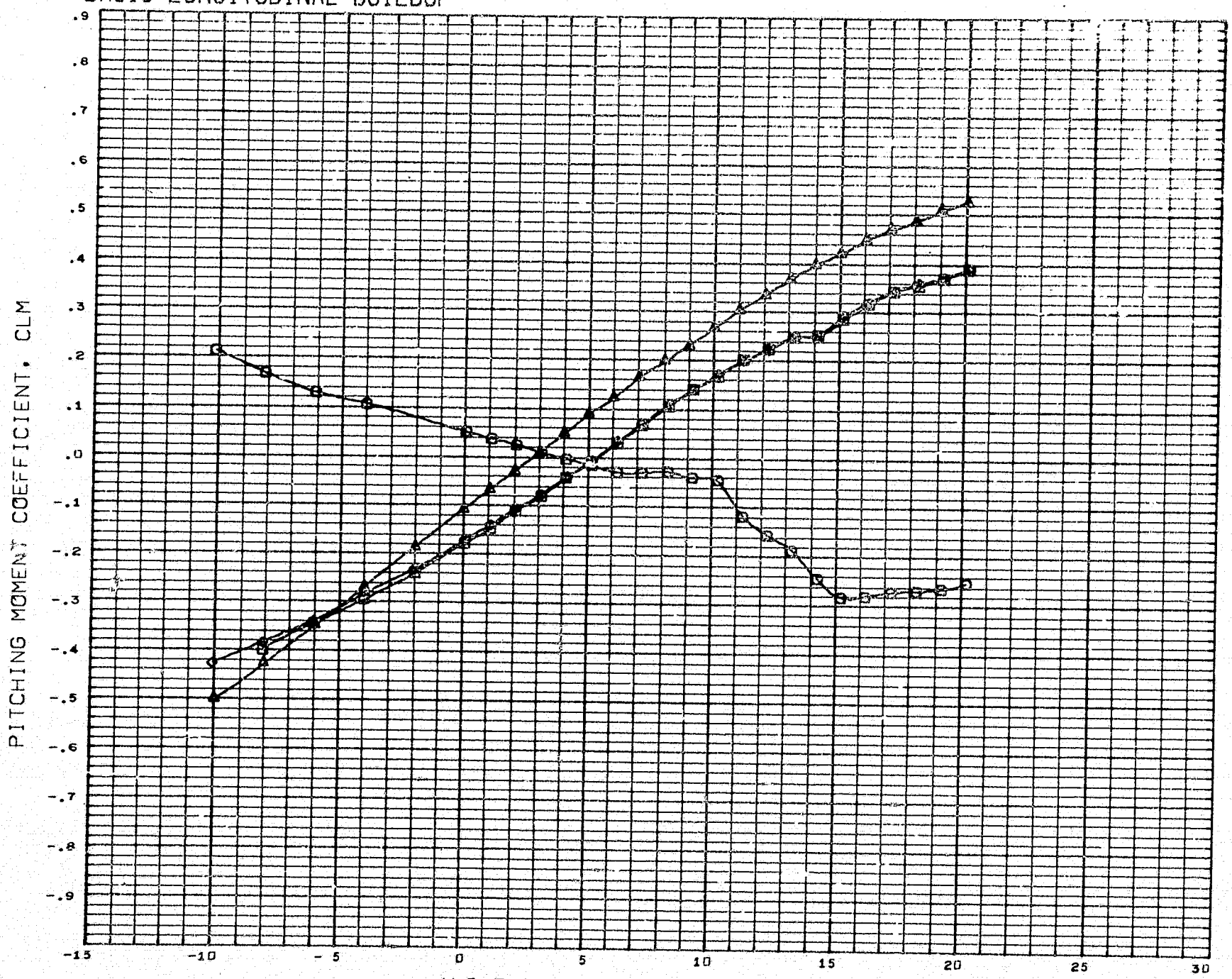
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LONGITUDINAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	O	4.0 FC 01 LSWT 237 B4W2V1Hi
(BCD04D)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD01D)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD00D)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

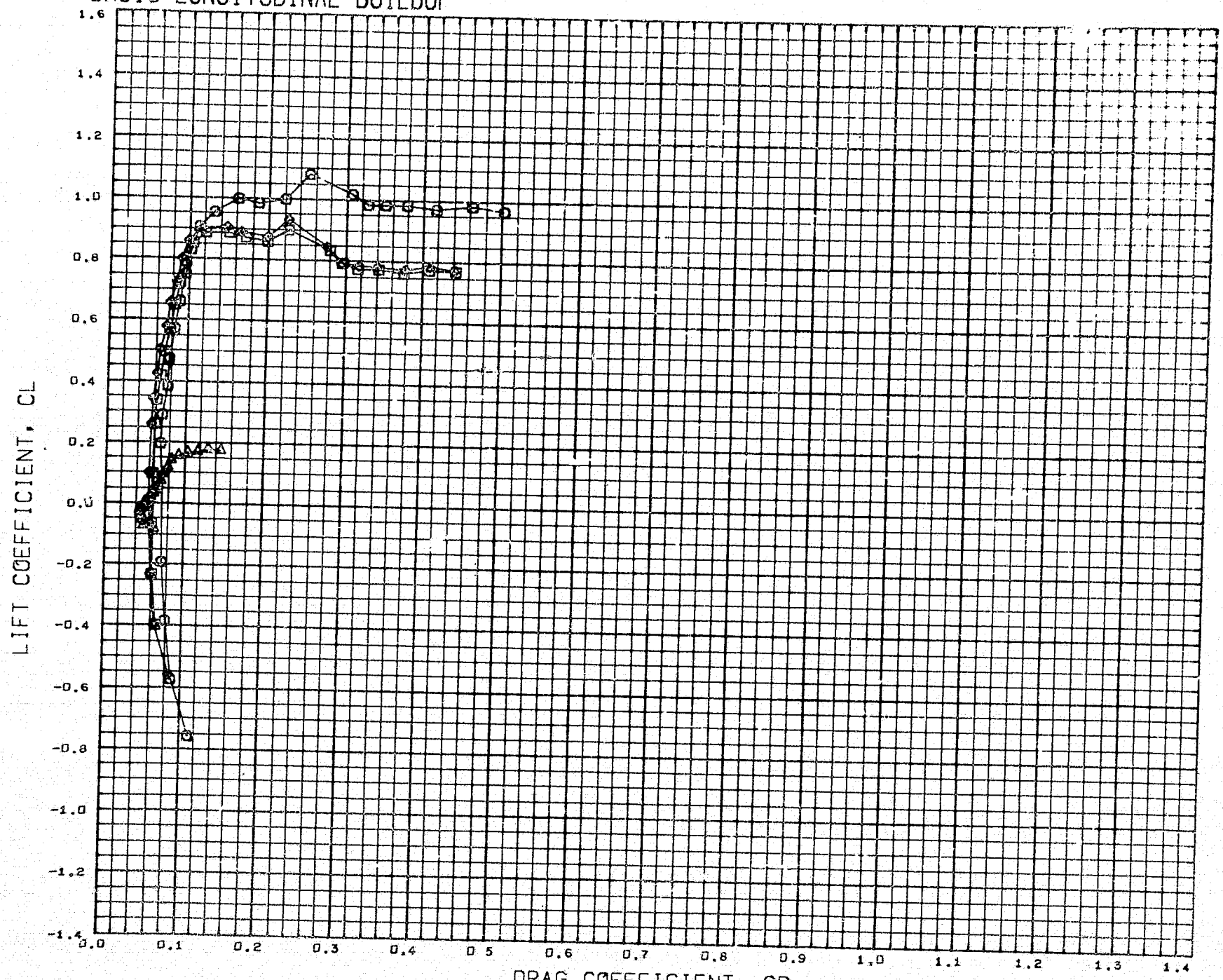
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LONGITUDINAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDAD4)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDD40)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCDD10)	◇	4.0 FC 01 LSWT 237 B4W2
(BCDDDD)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

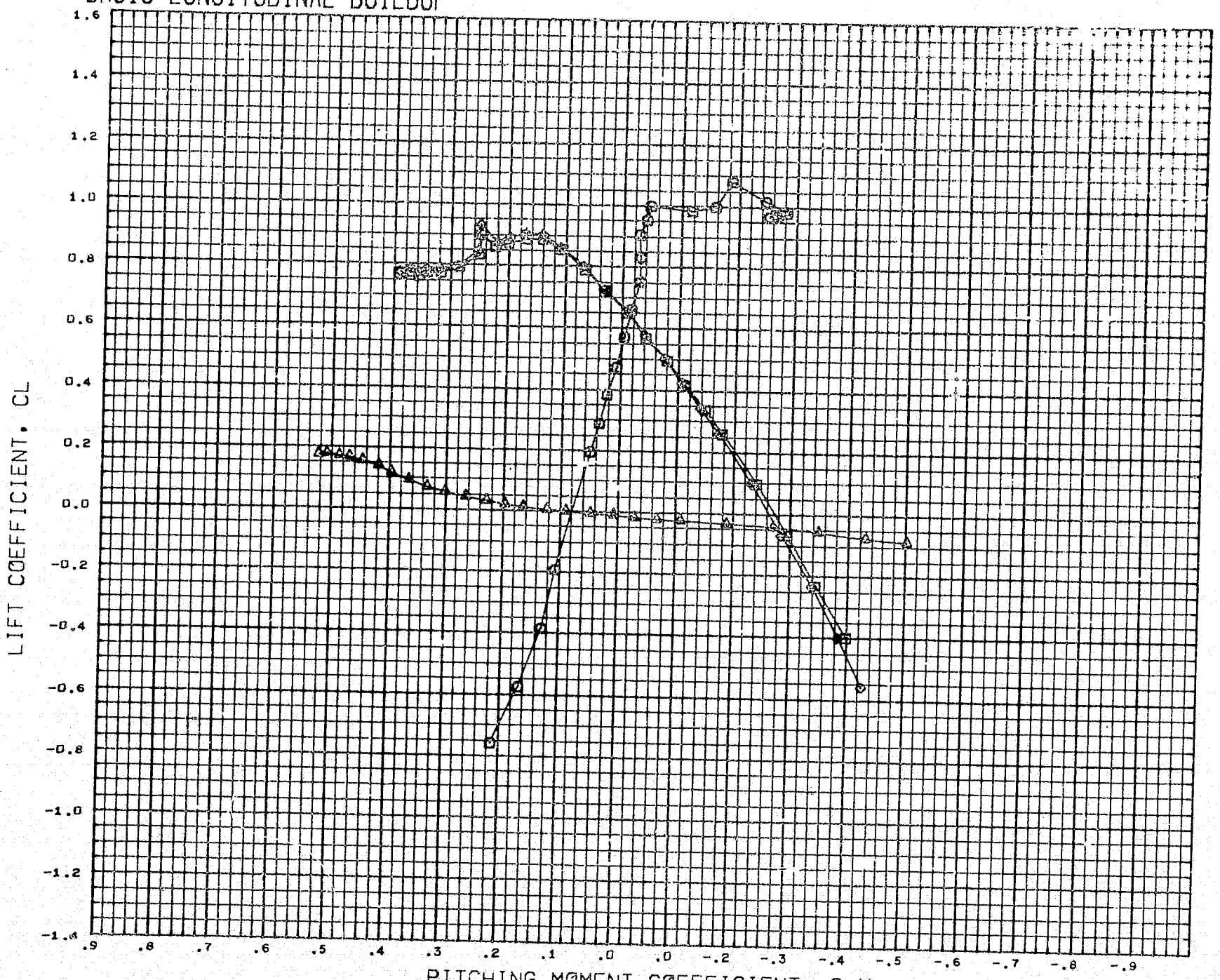
PARAMETRIC VALUES

BETA	0.000	HTAIL	5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LONGITUDINAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD040)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD010)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD000)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

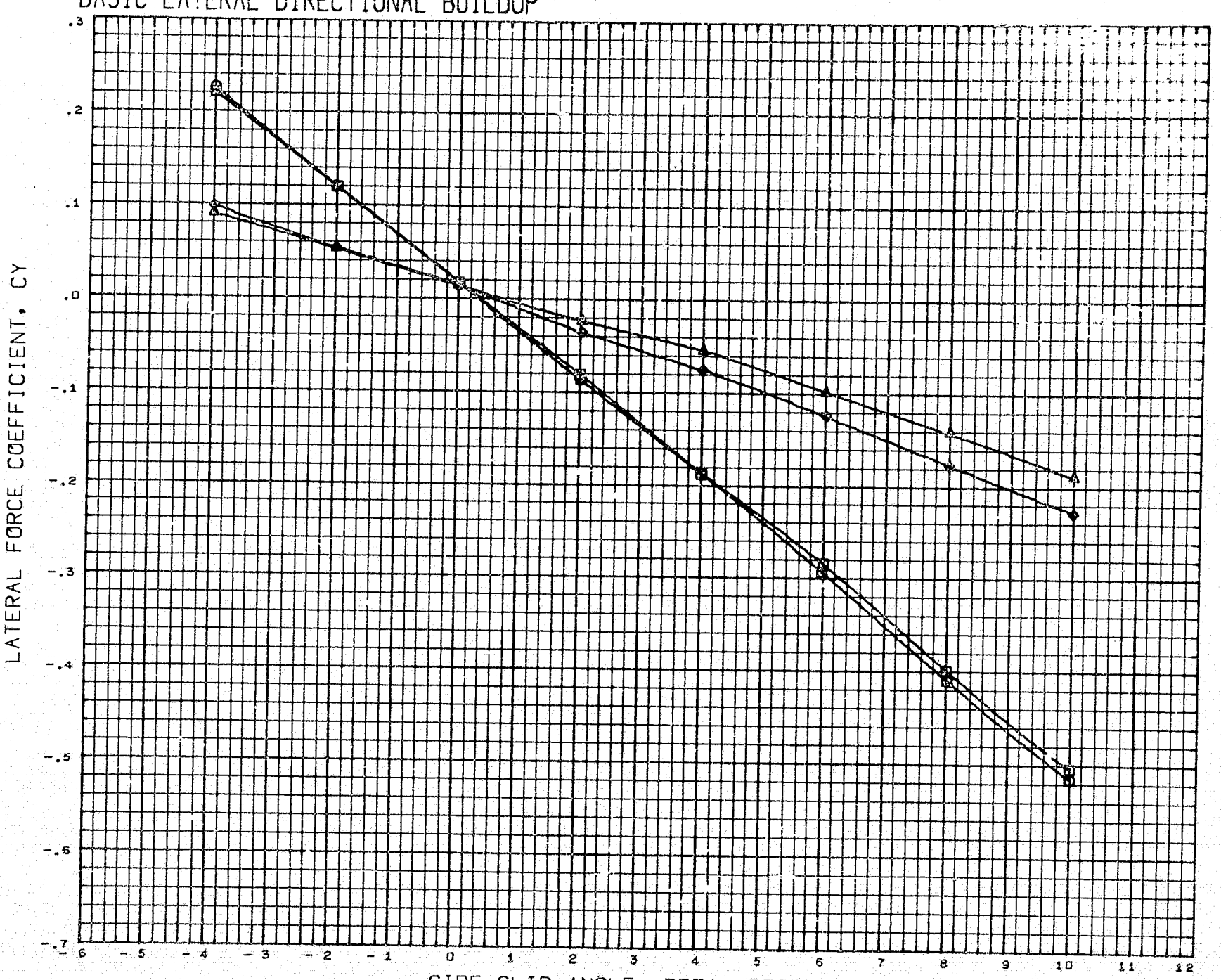
PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000
SF-L	0.000	SF-R		0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD042)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD012)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD002)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

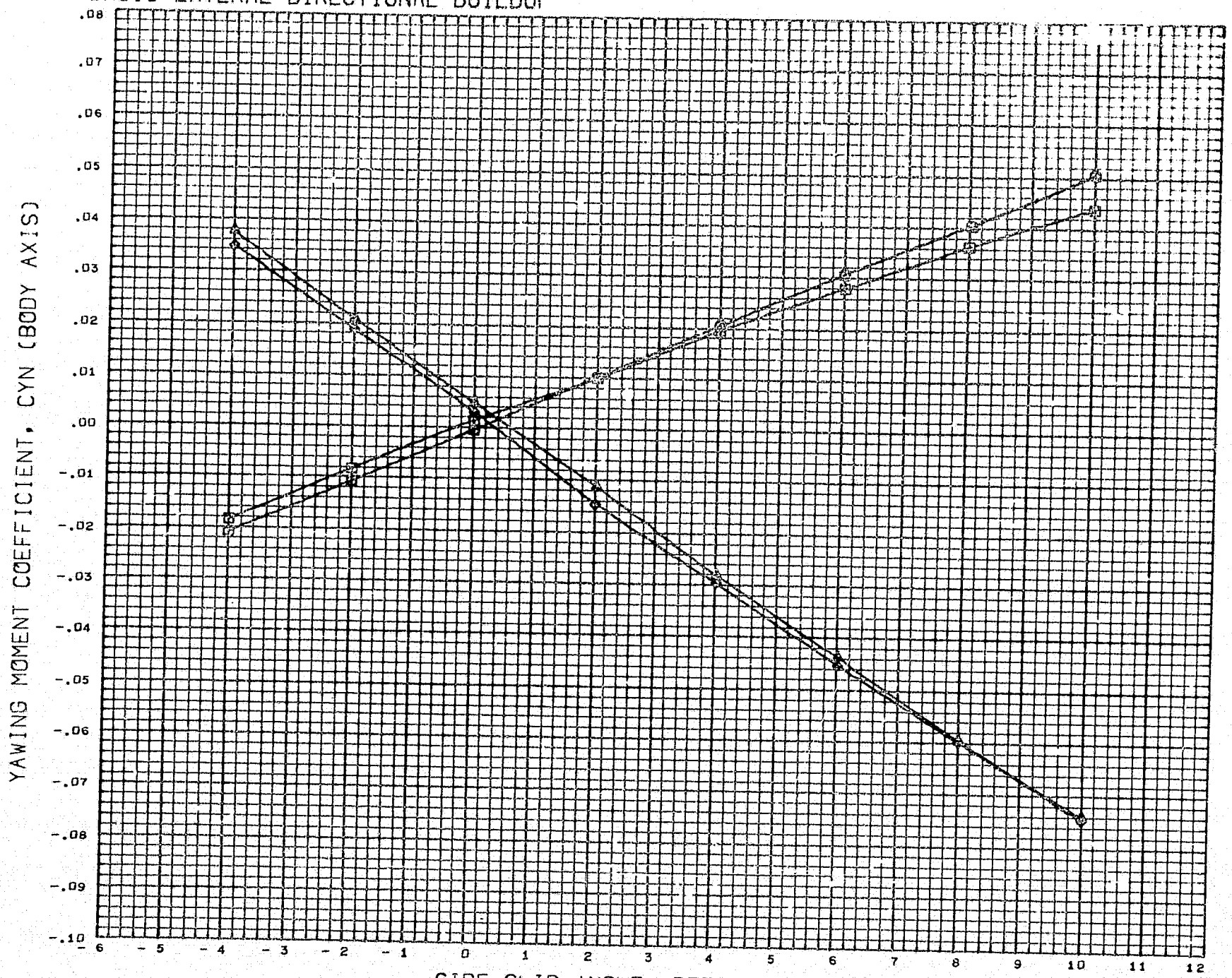
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5170	IN.
REFB	55.3630	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1Hi
(BCD042)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD012)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD002)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

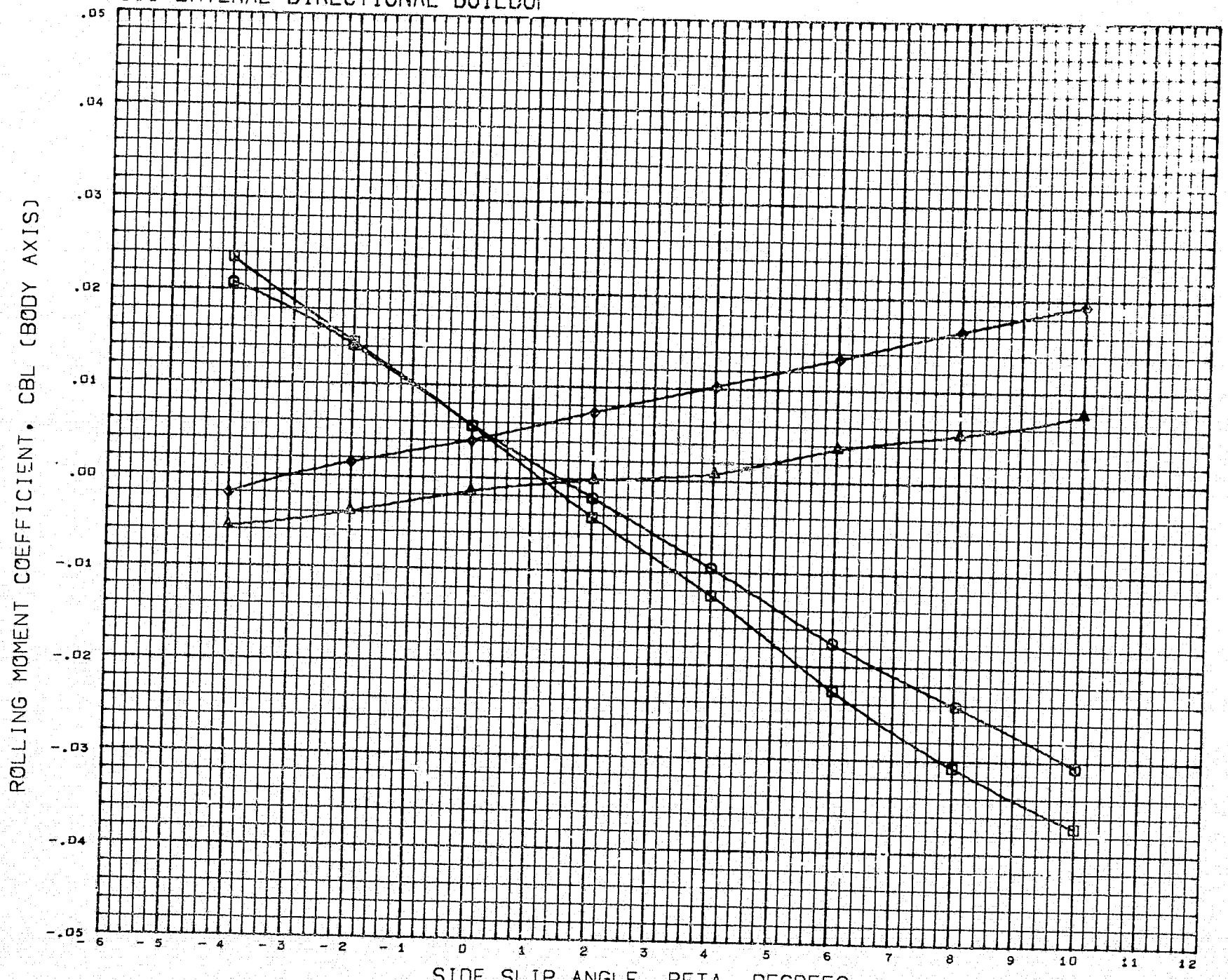
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5130	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD042)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD012)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD002)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

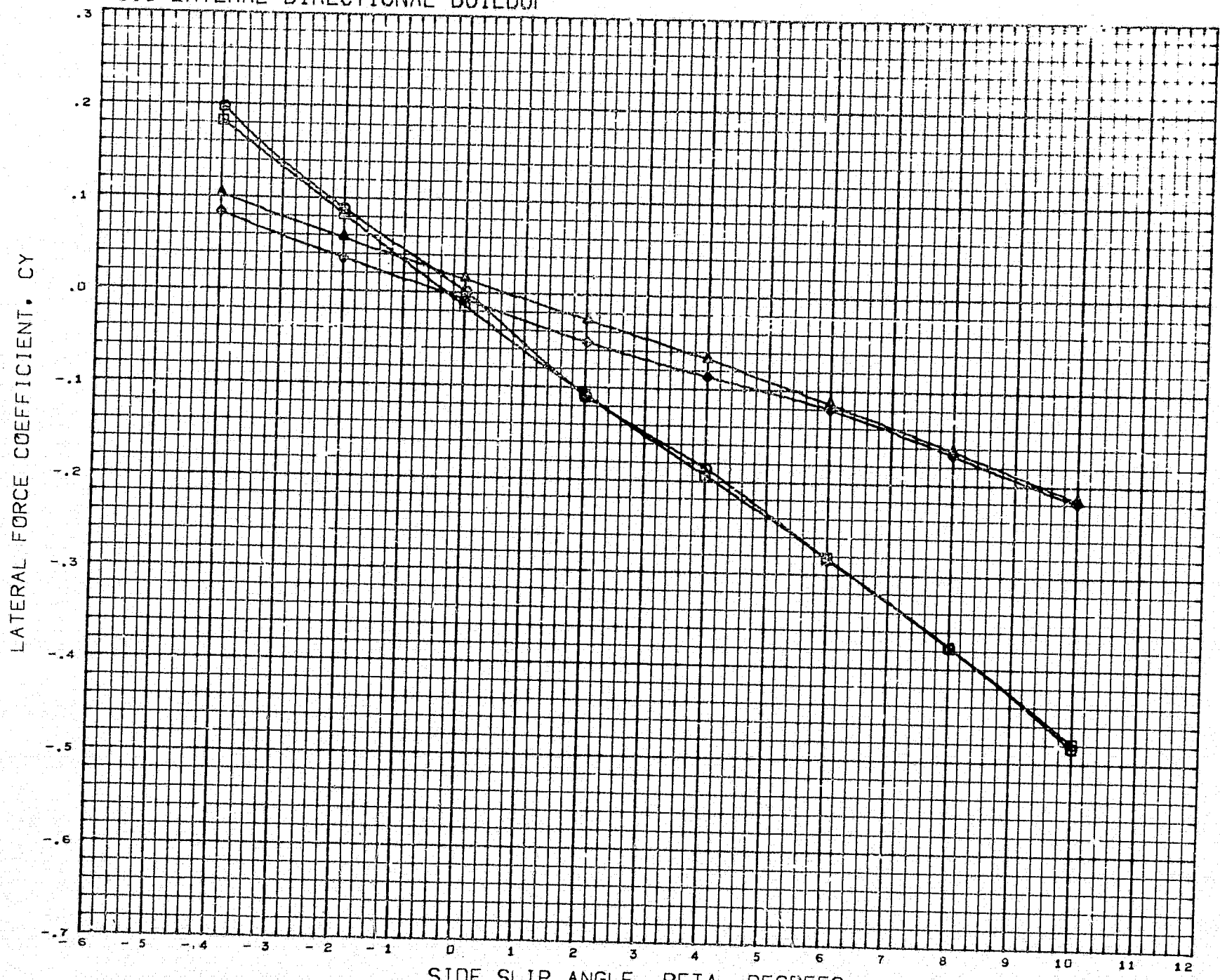
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5130	IN.
REFB	55.3800	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA03)	○	4.0 FC 01 LSWT 237 B4W2V1Hi
(BCD043)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD013)	◇	4.0 FC 01 LSWT 237 B4W2
(3CD003)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

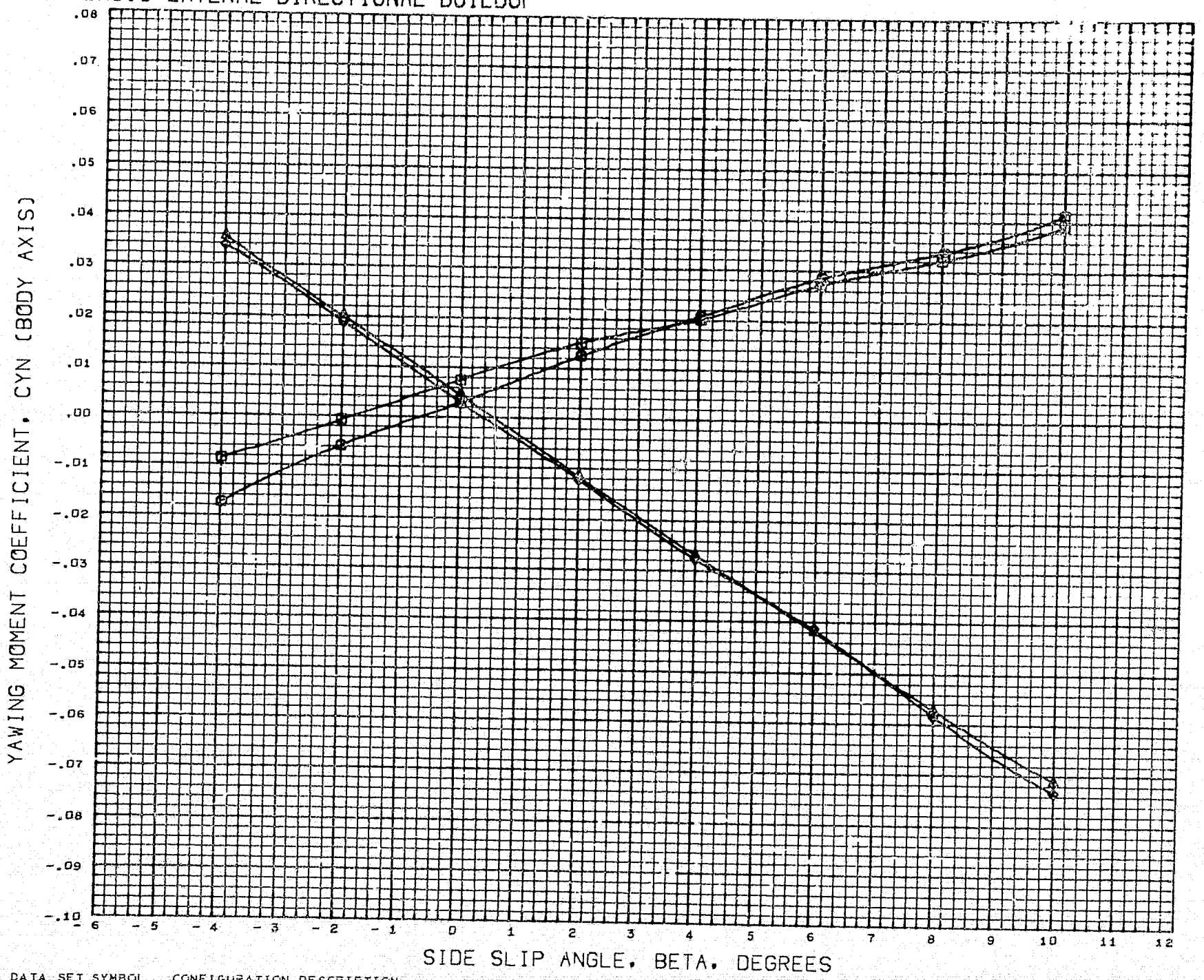
PARAMETRIC VALUES

ALPHA 12.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA03)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD043)	□	4.0 FC 01 LSWT 237 B4W2V1
(BCD013)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD003)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

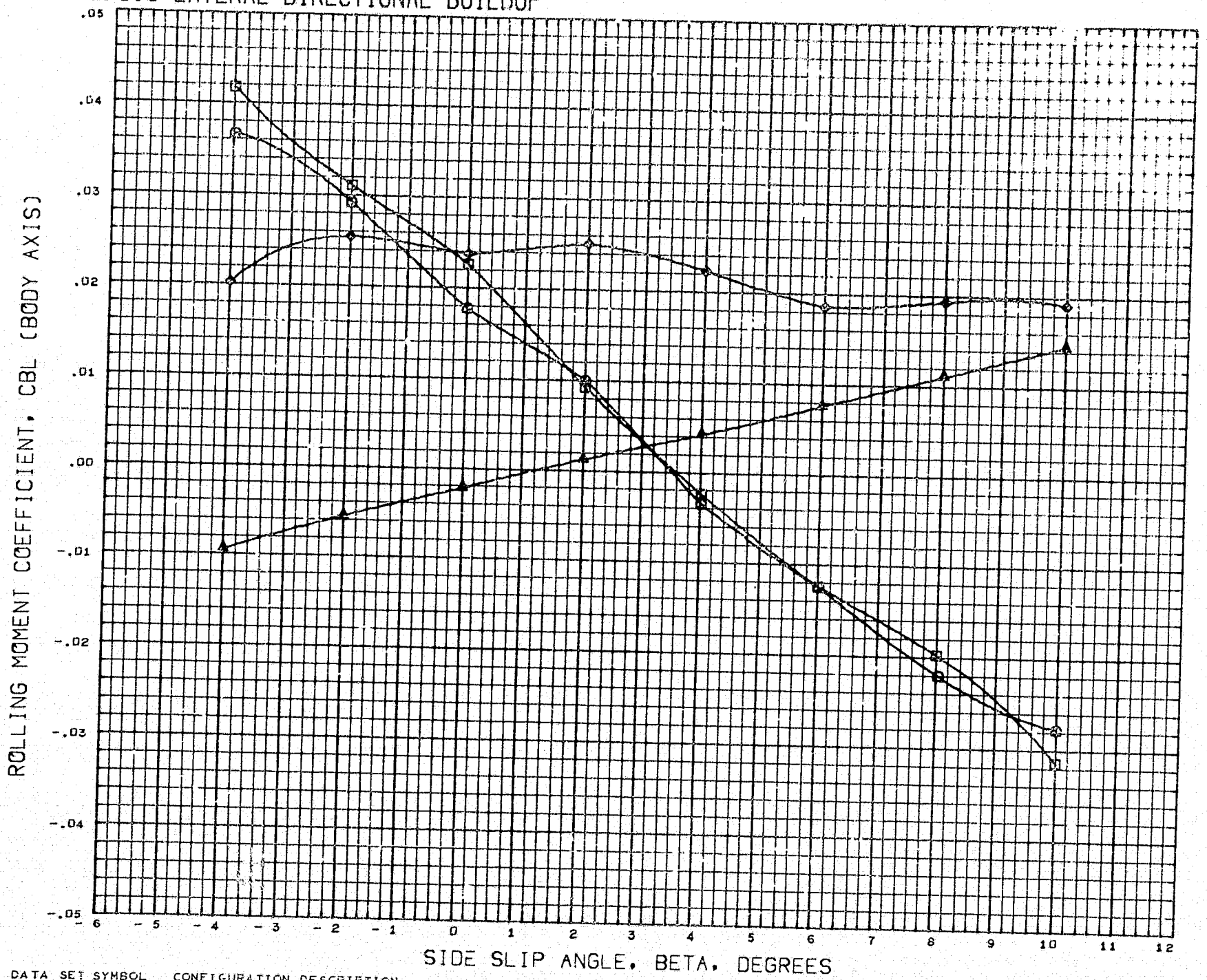
PARAMETRIC VALUES

ALPHA 12.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA03)	○	4.0 PC 01 LSWT 237 B4W2V1Hi
(BCD043)	□	4.0 PC 01 LSWT 237 B4W2V1
(BCD013)	◇	4.0 PC 01 LSWT 237 B4W2
BCD003)	△	4.0 PC 01 LSWT 237 B4

ELEVTR 0.000

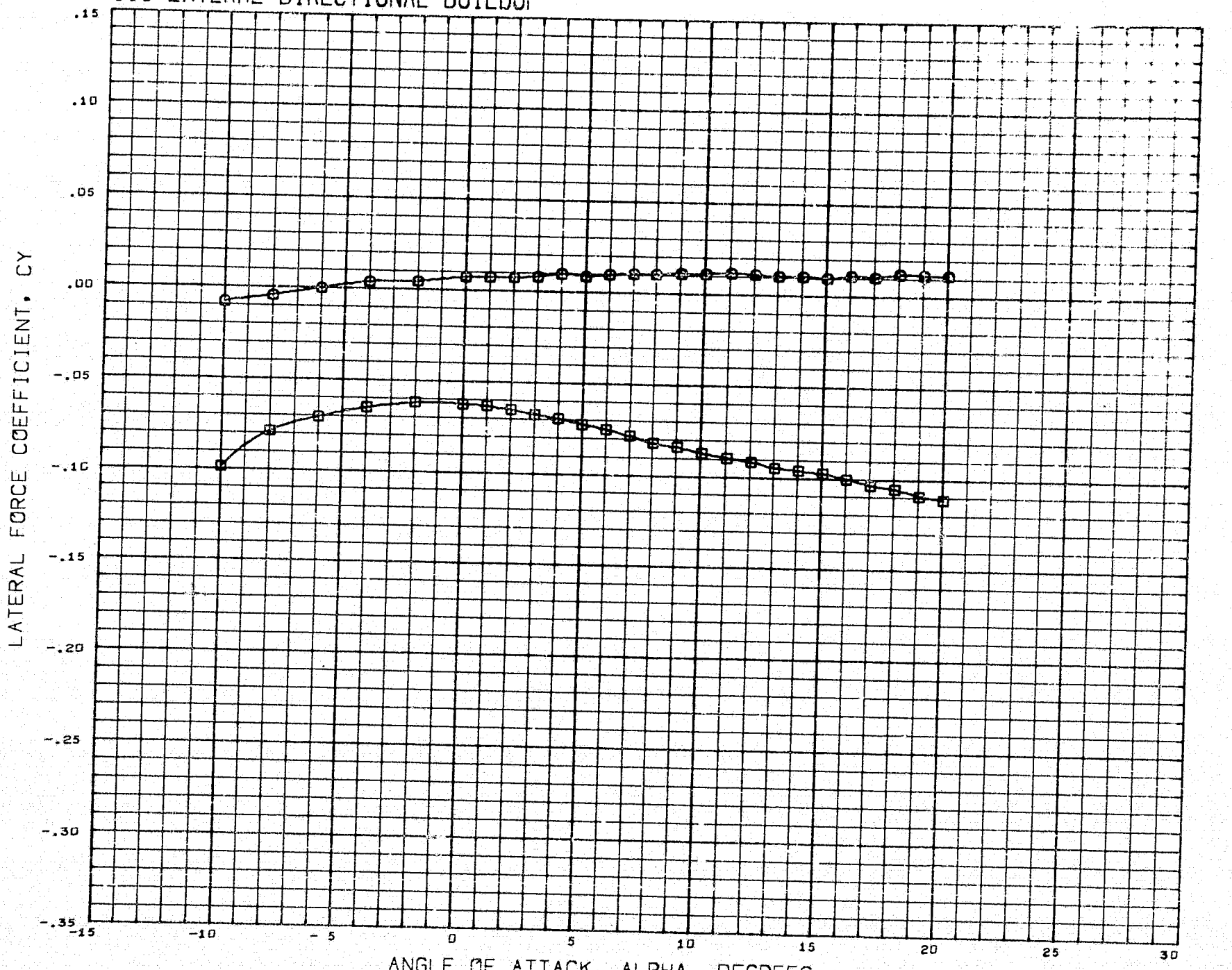
PARAMETRIC VALUES

ALPHA 12.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



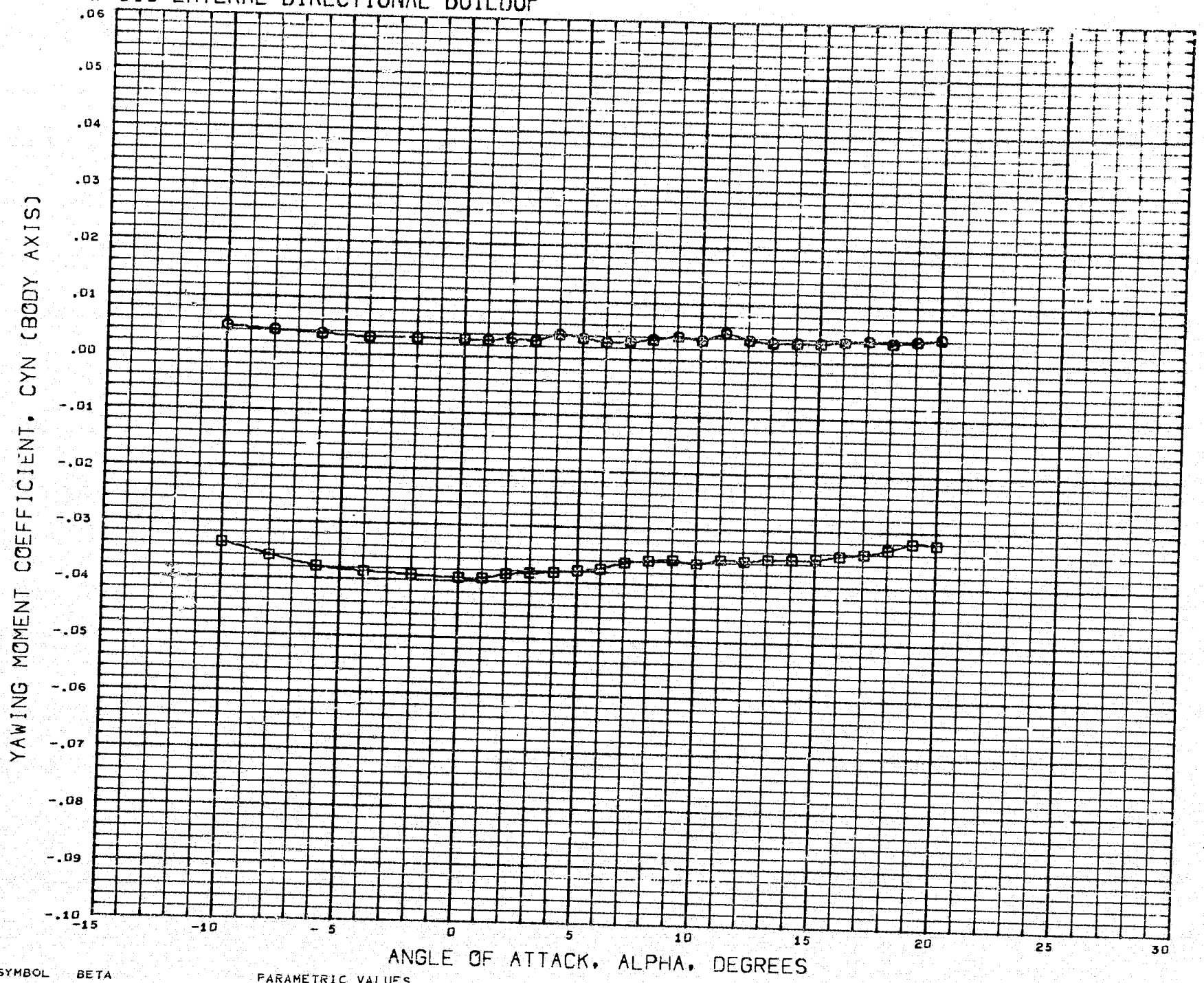
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFC	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA	PARAMETRIC VALUES	
□	0.000	ELEVTR	0.000
□	5.000		

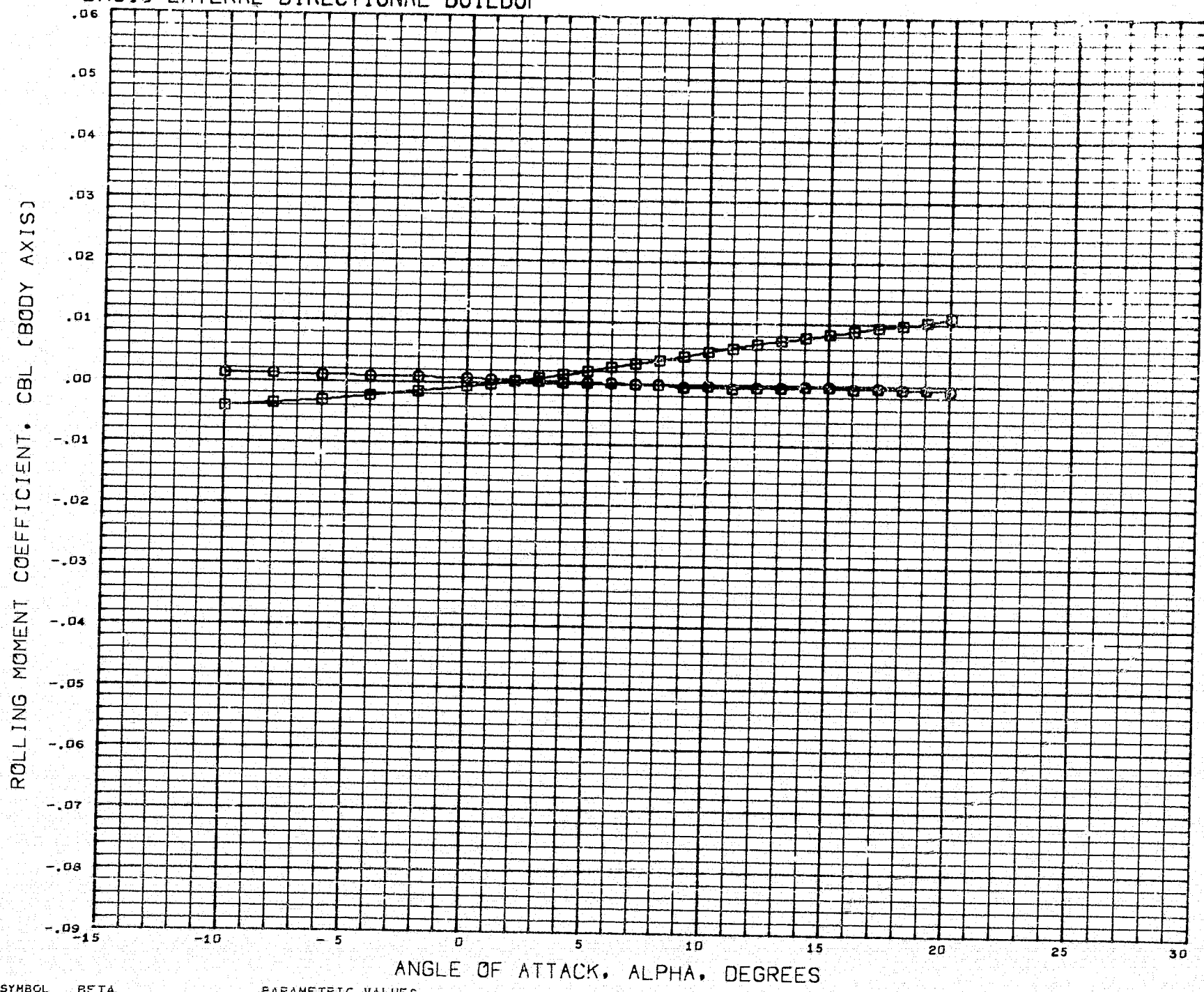
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4

BASIC LATERAL DIRECTIONAL BUILDUP



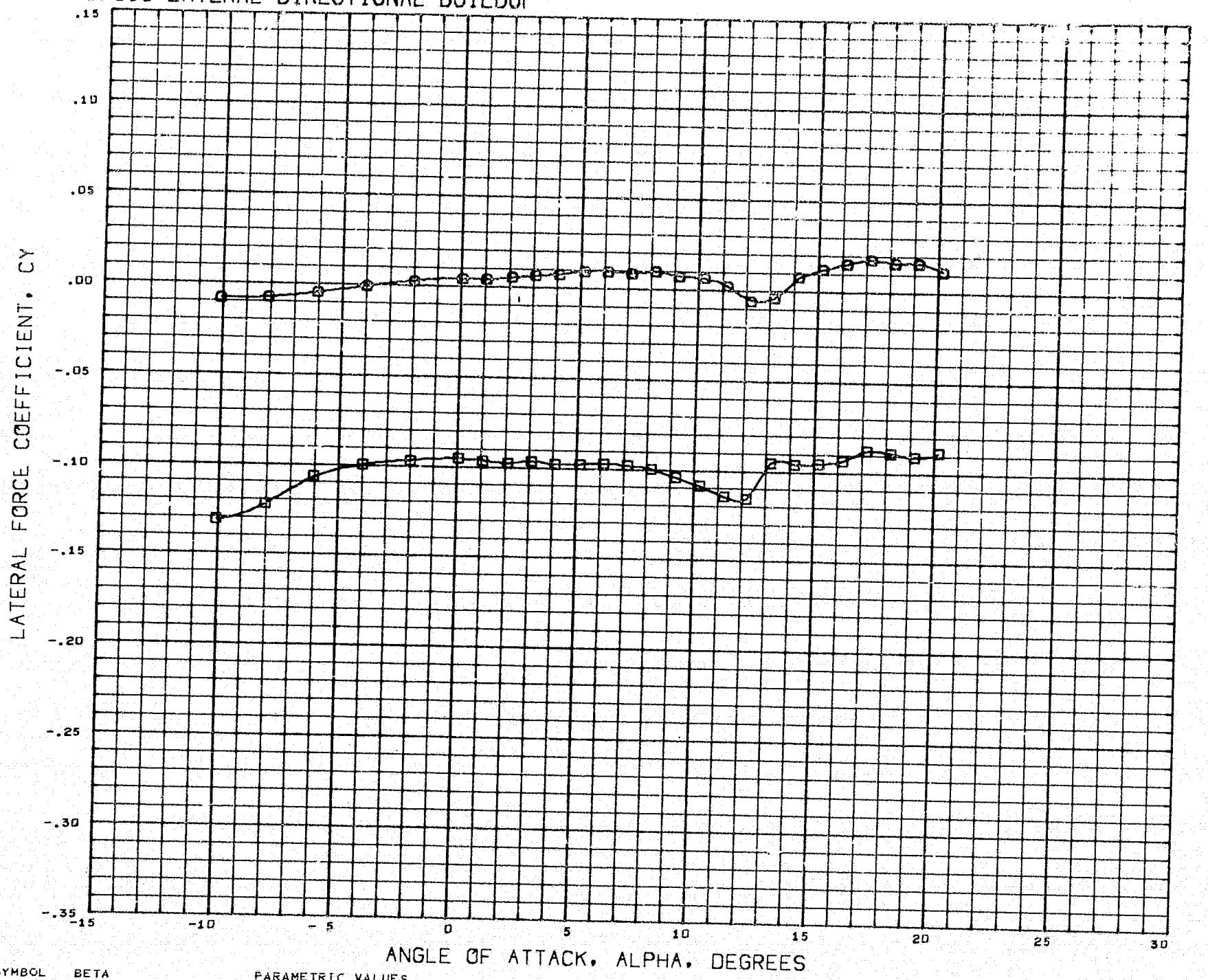
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V=E

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSW1 237 B4W2

BASIC LATERAL DIRECTIONAL BUILDUP

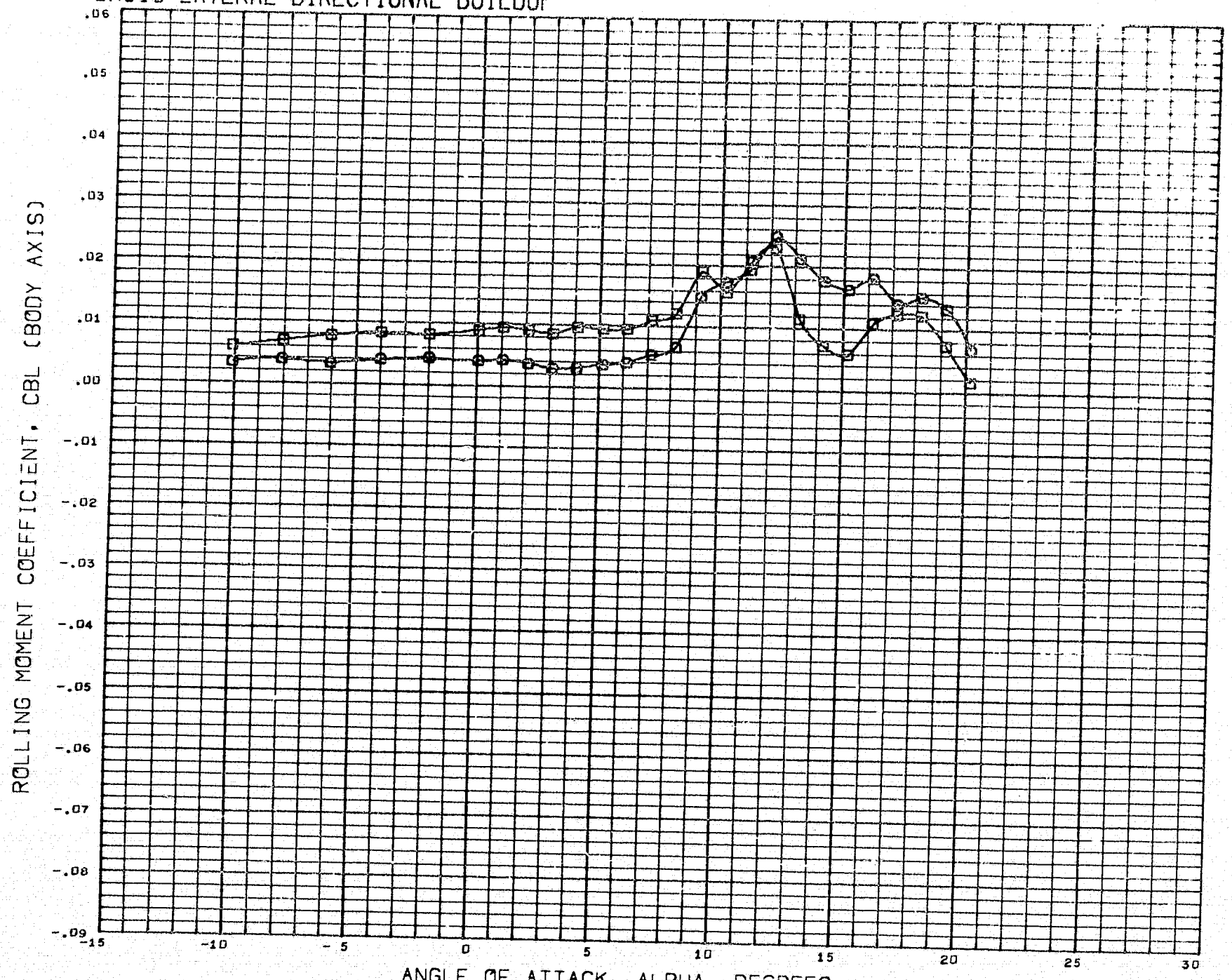
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

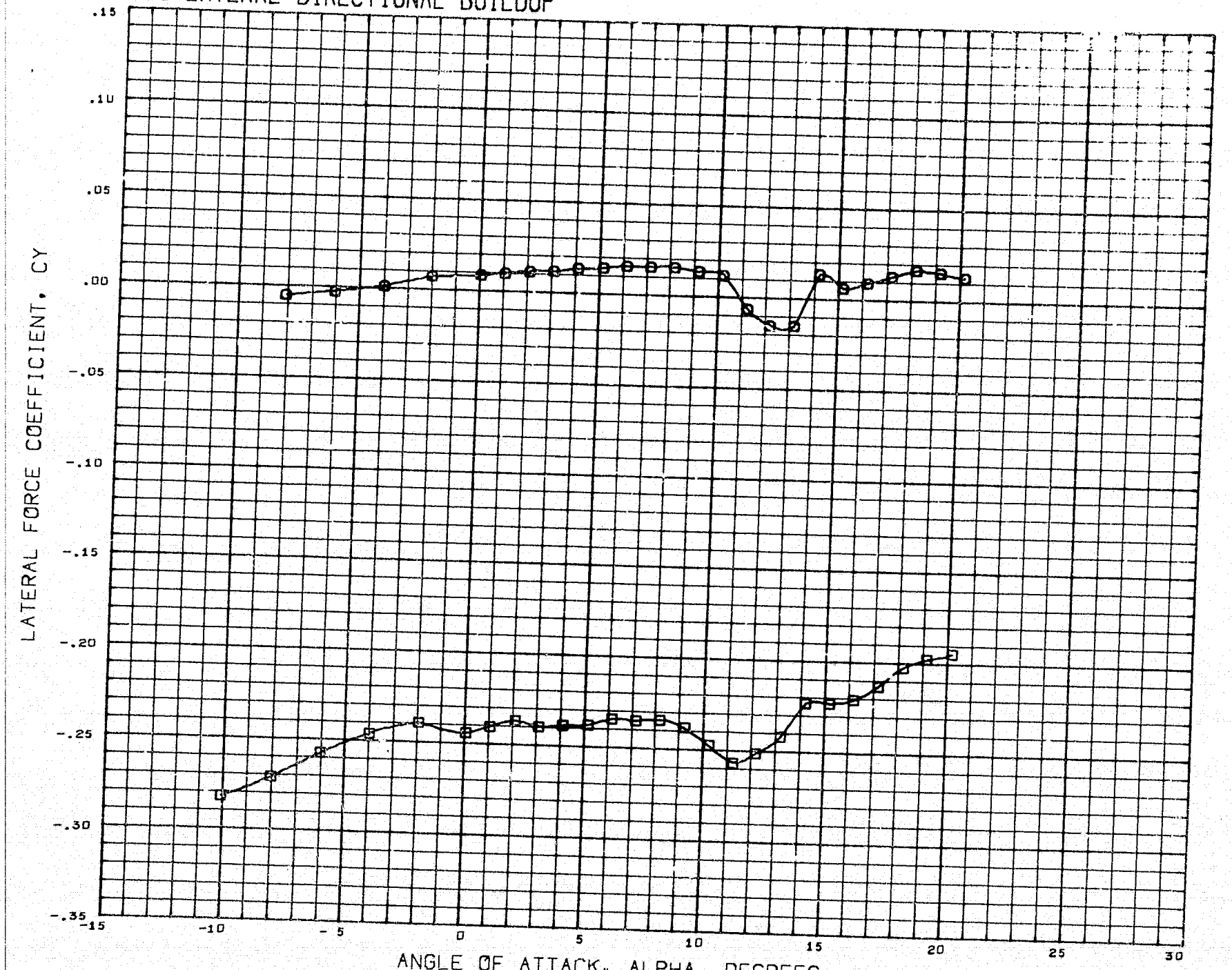
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2

BASIC LATERAL DIRECTIONAL BUILDUP



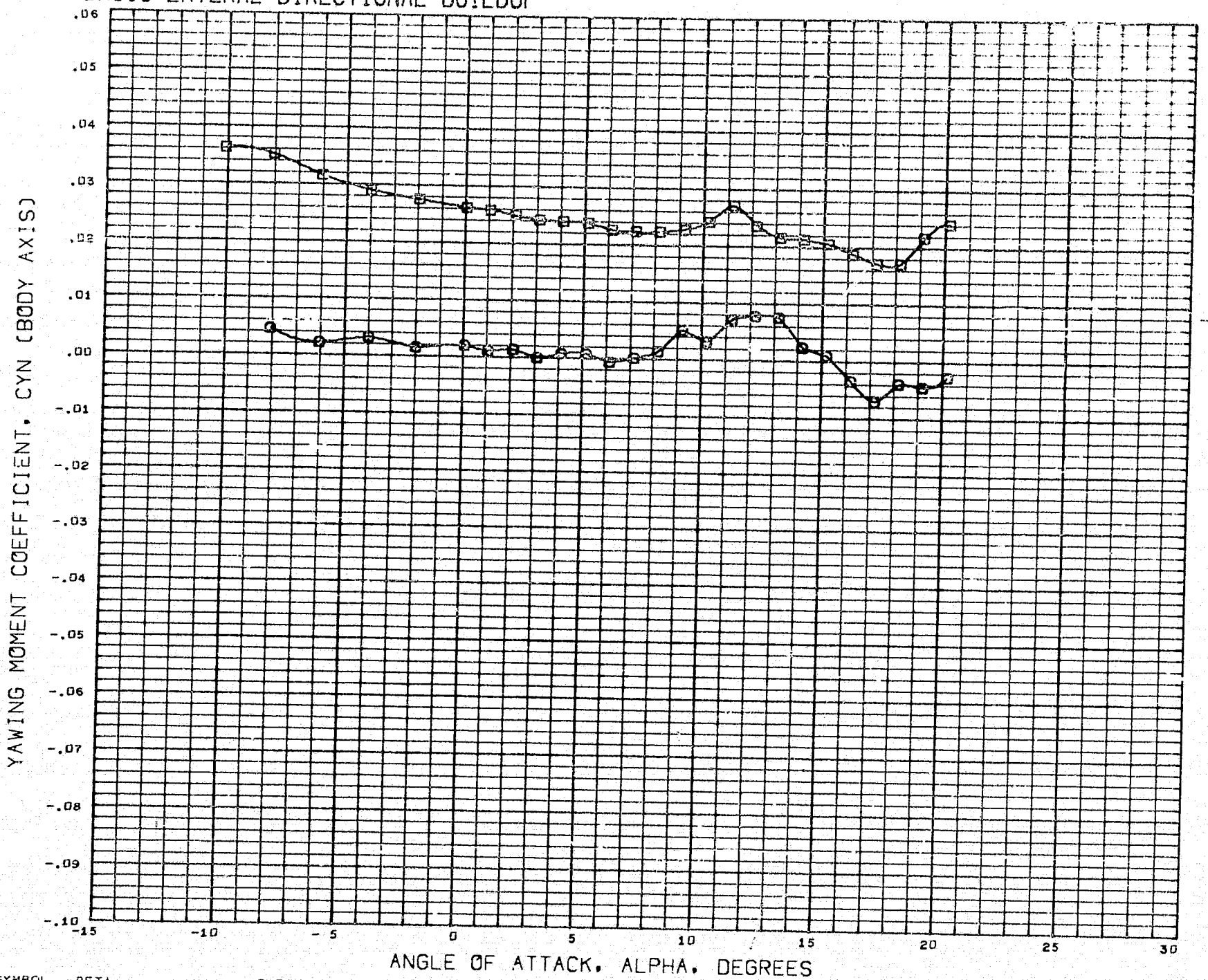
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

DATA HIST. CODE V≠E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

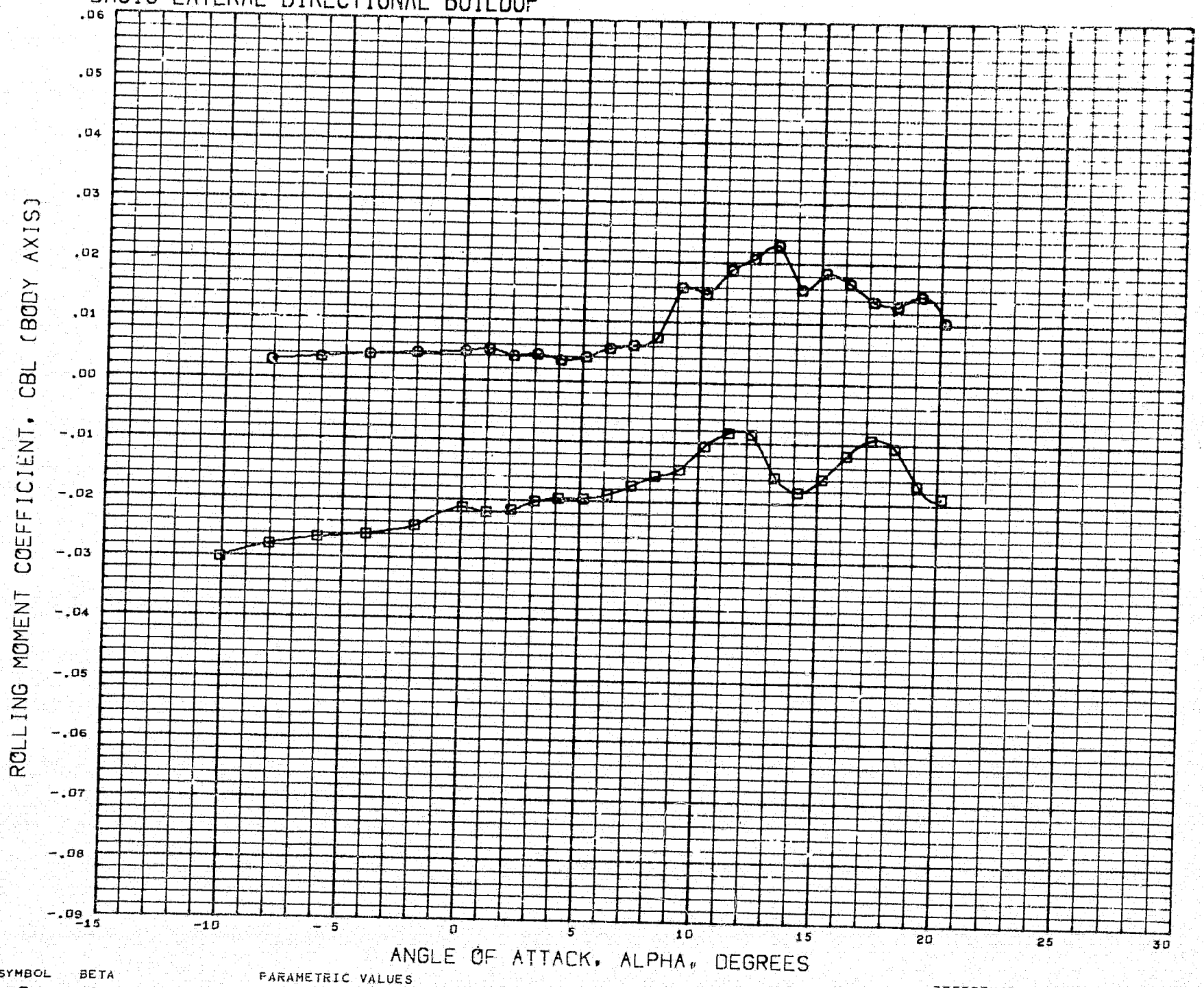
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1

BASIC LATERAL DIRECTIONAL BUILDUP



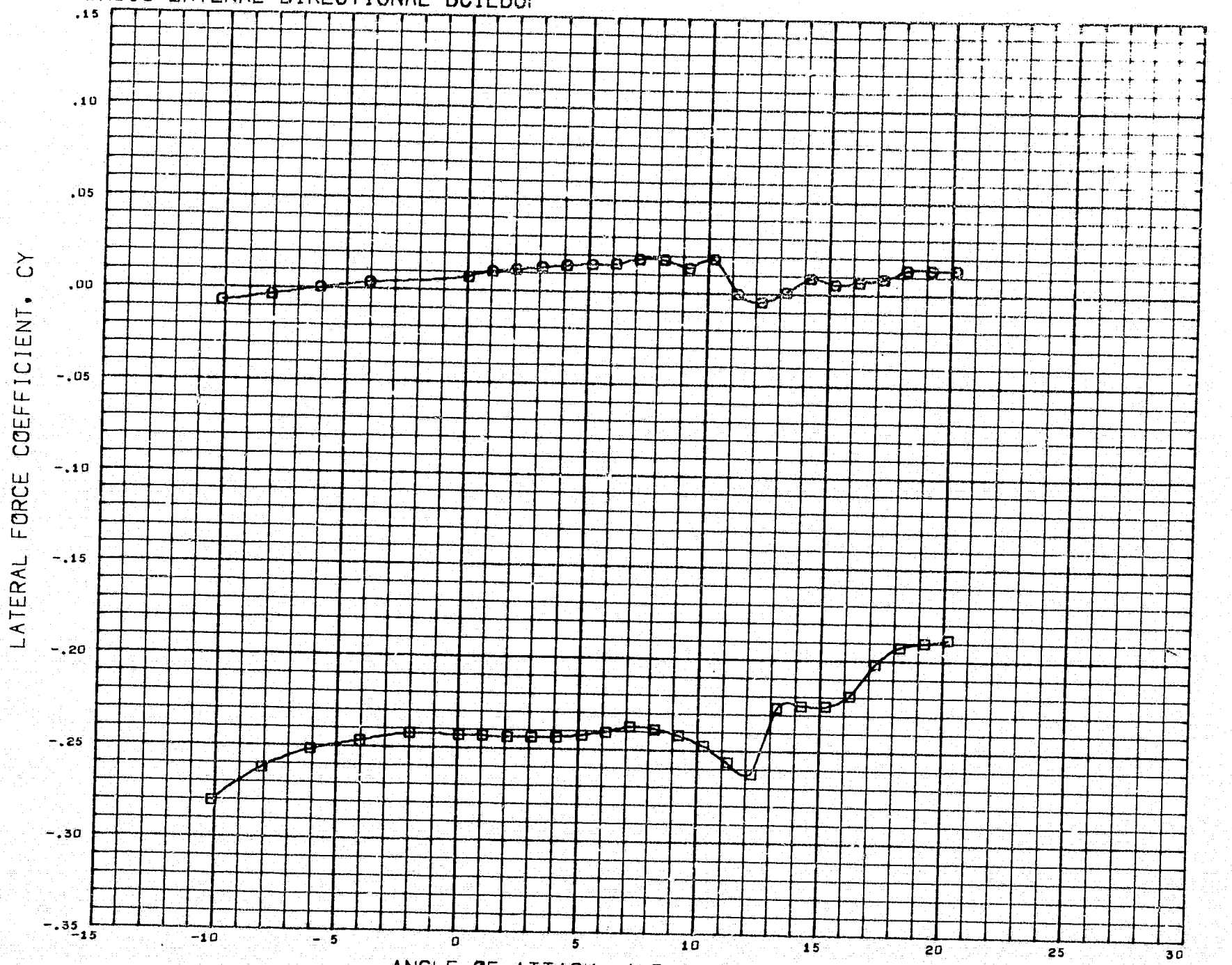
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	SP-L	0.000	SP-R	0.000

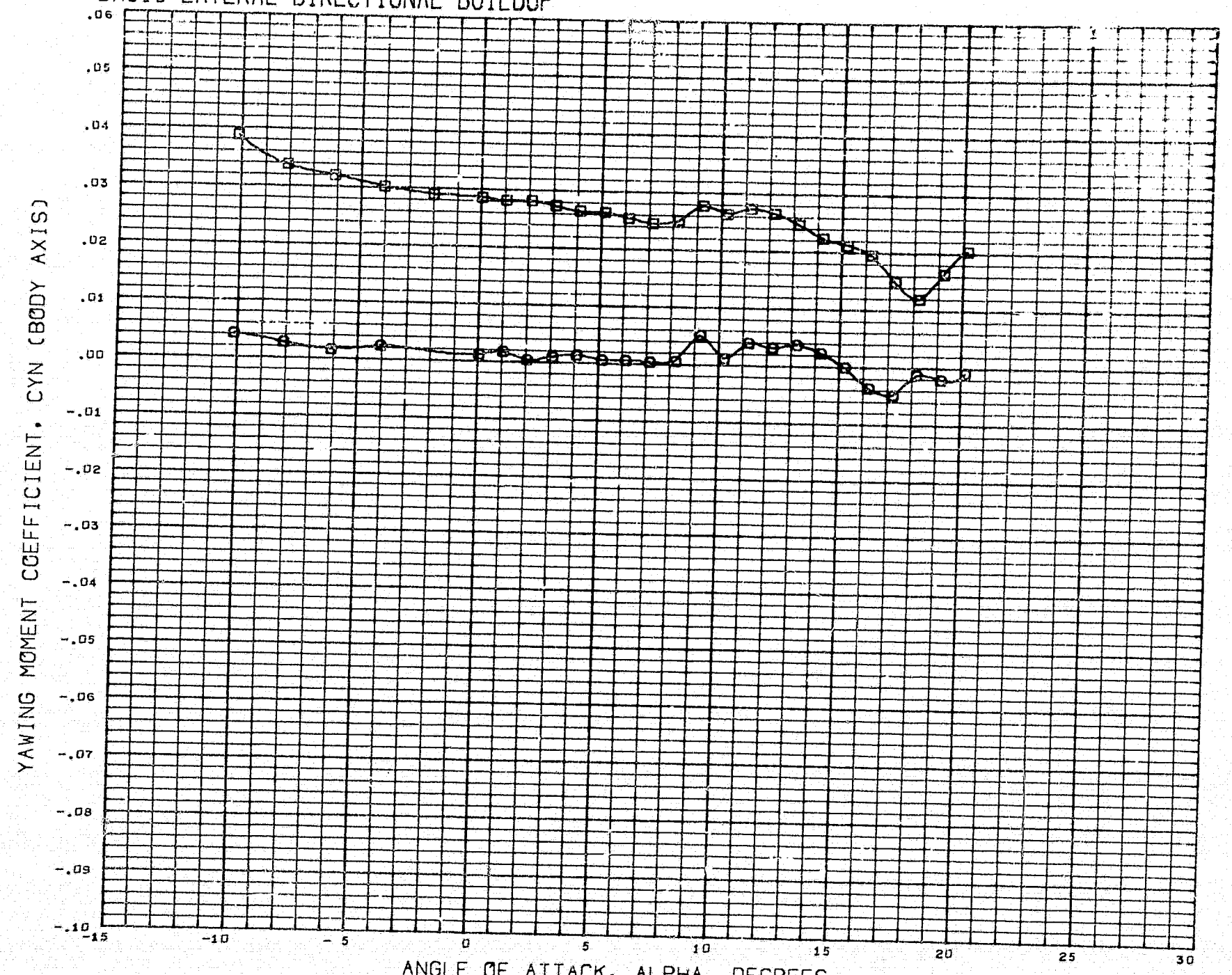
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*A

4.0 PC 01 LSWT 237 B4W2V1H1 (DCDA04) 29 APR 71 PAGE 38

BASIC LATERAL DIRECTIONAL BUILDUP



SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	SF-L	0.000	SF-R	0.000

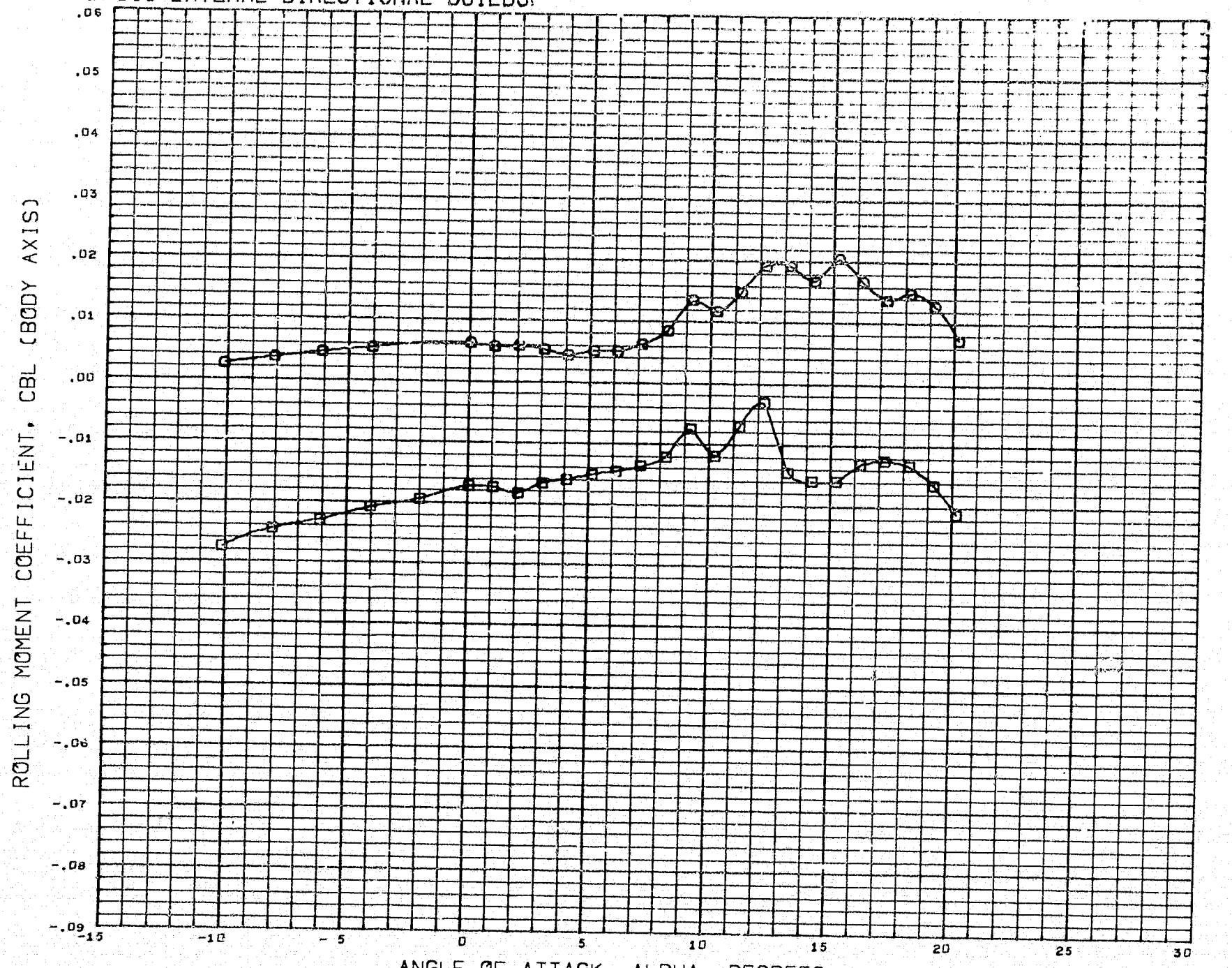
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*A

4.0 PC 01 LSWT 237 B4W2V1H1

BASIC LATERAL DIRECTIONAL BUILDUP



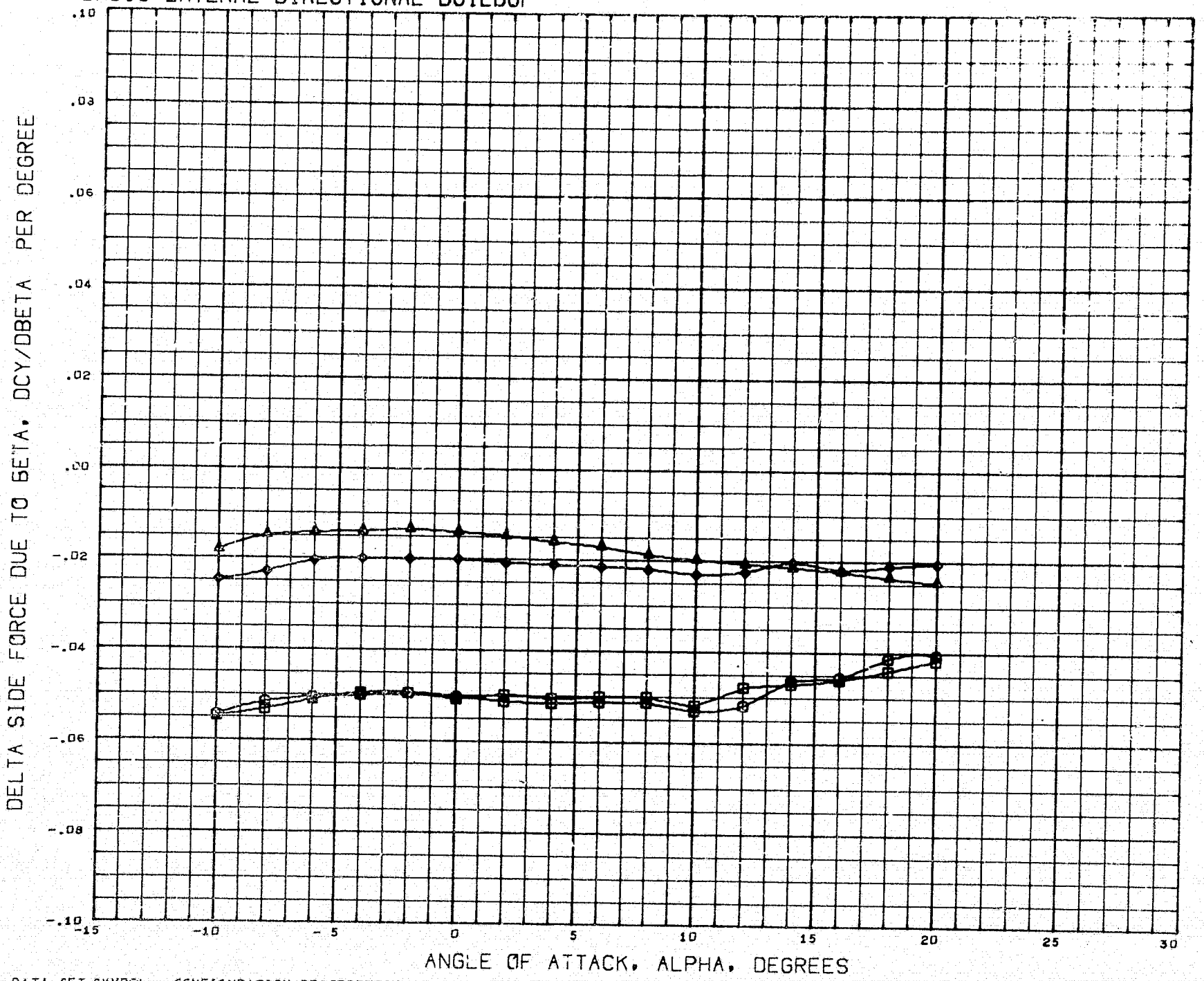
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*A

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCDB40)	□	4.0 FC 01 LSWT 237 B4W2V1
(FCDD10)	◇	4.0 FC 01 LSWT 237 B4W2
(FCDE00)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

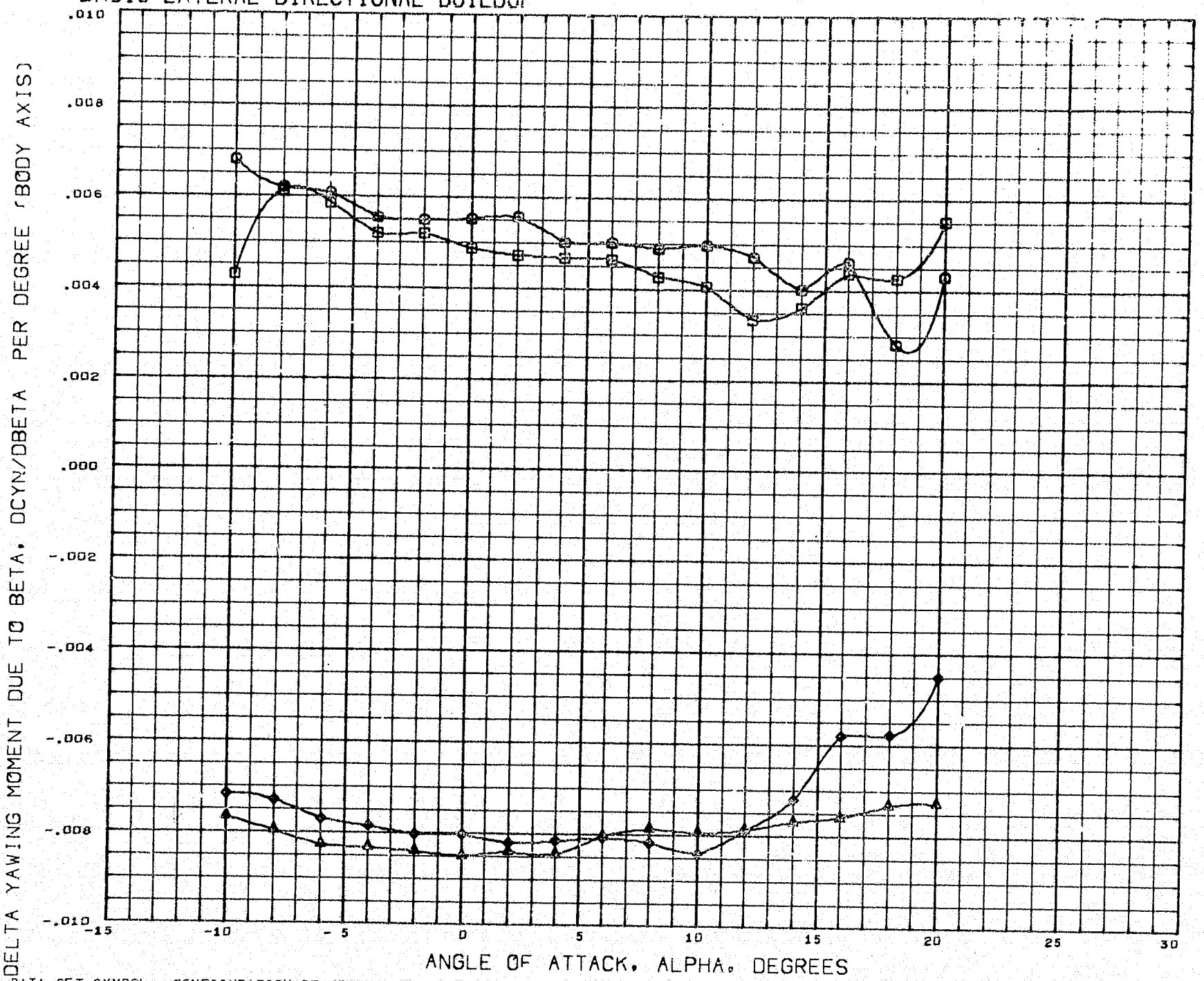
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5140	IN.
REFB	55.3600	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASIC LATERAL DIRECTIONAL BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCD040)	□	4.0 FC 01 LSWT 237 B4W2V1
(FCD010)	◇	4.0 FC 01 LSWT 237 B4W2
(FCD000)	△	4.0 FC 01 LSWT 237 B4

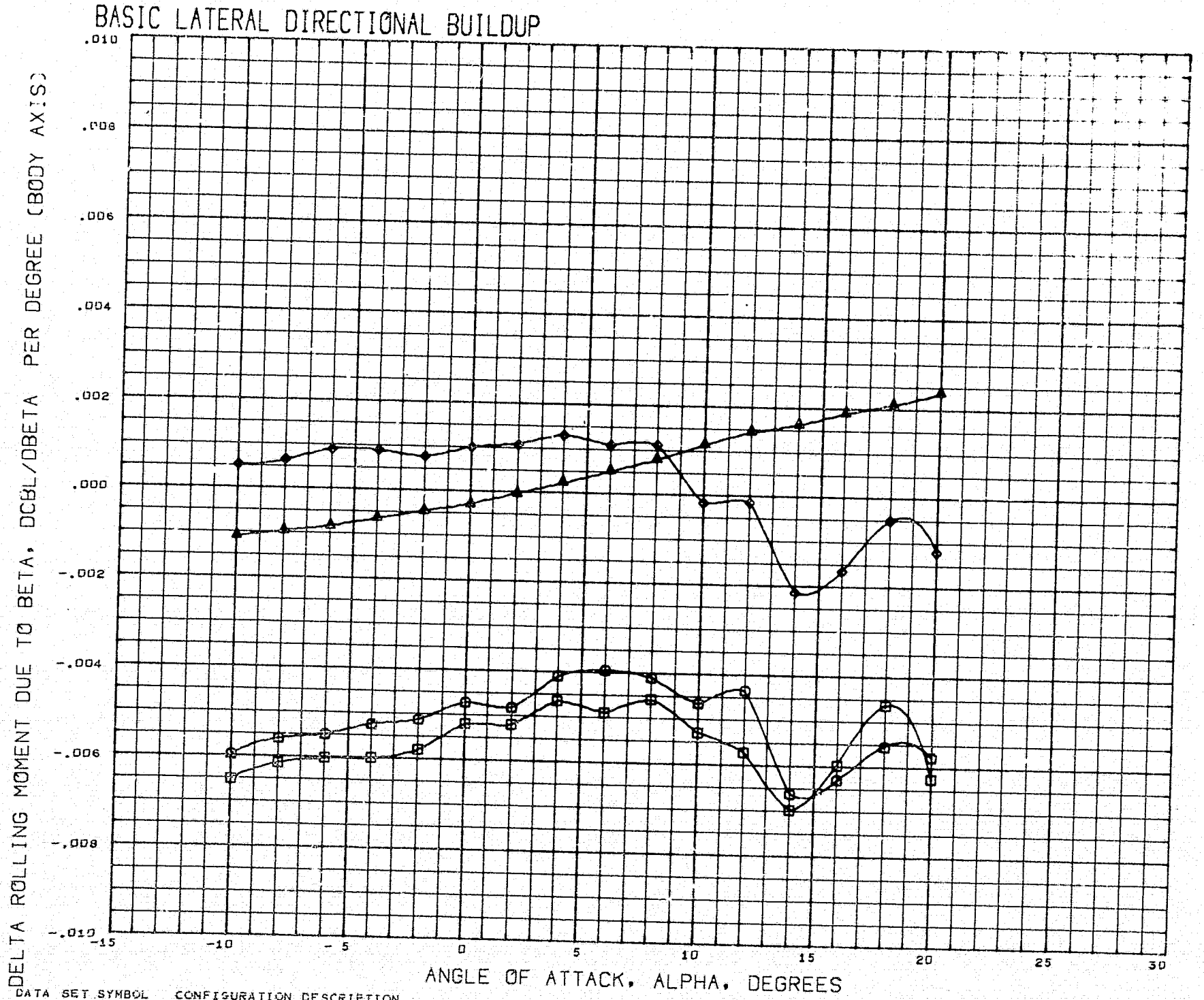
ELEVTR 0.000

PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5101	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCD040)	□	4.0 FC 01 LSWT 237 B4W2V1
(FCD010)	◇	4.0 FC 01 LSWT 237 B4W2
(FCD000)	△	4.0 FC 01 LSWT 237 B4

ELEVTR 0.000

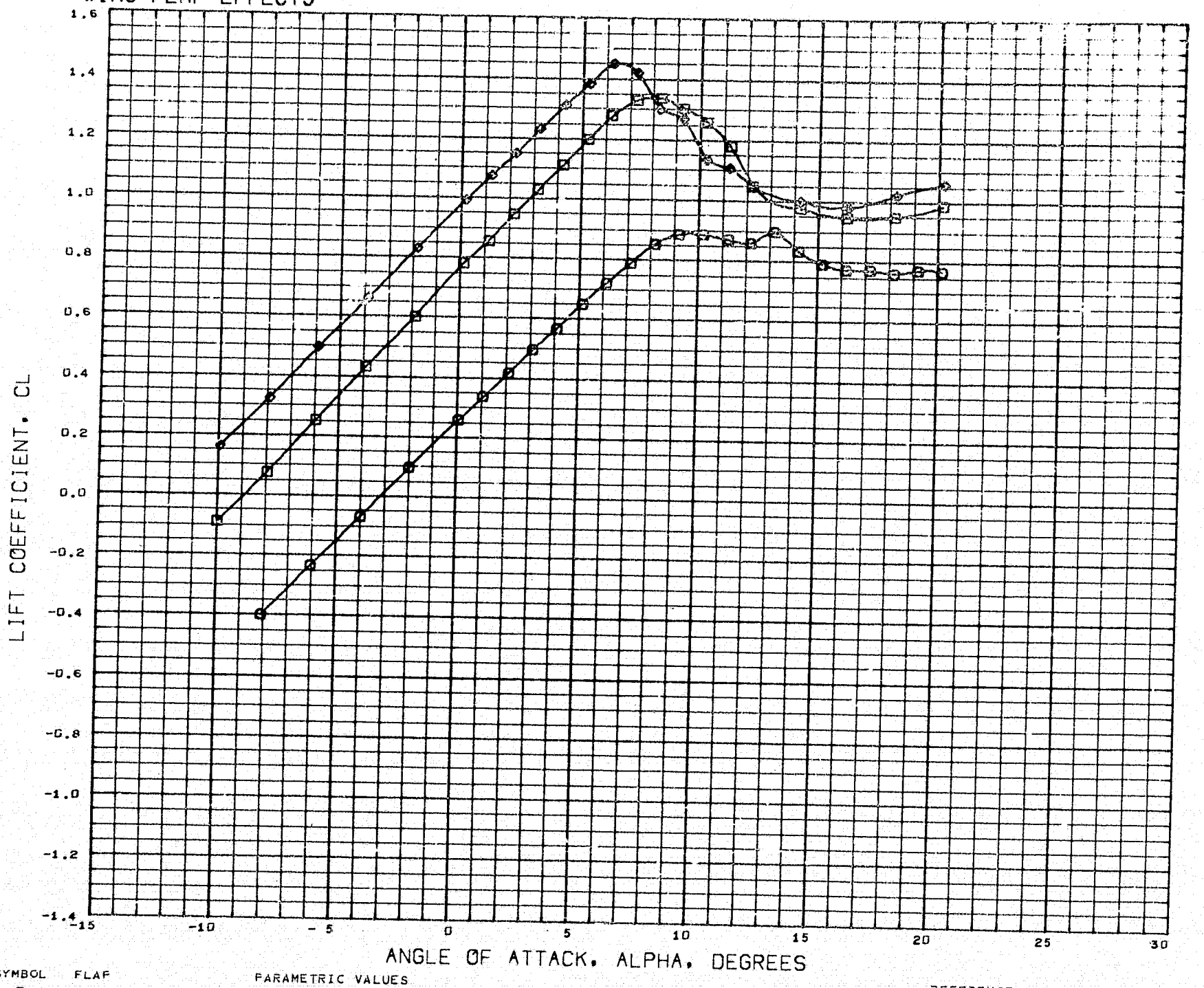
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5170	IN.
REFB	55.3000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



SYMBOL	FLAP		PARAMETRIC VALUES
○	0.000	BETA	0.000
□	25.000		
◇	45.000		

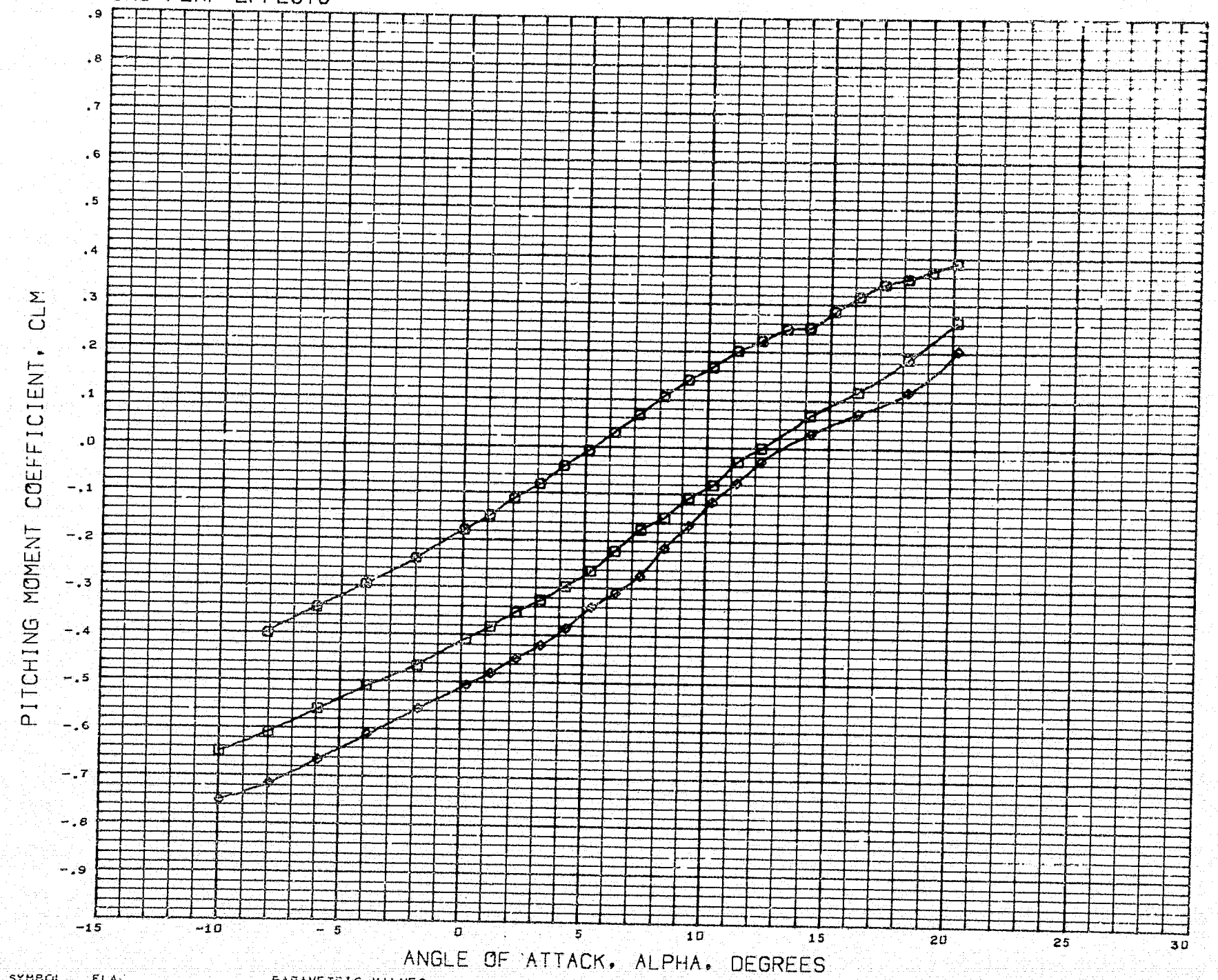
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

4.0 PC 01 LSWT 237 B4W2V1F2G

WING FLAP EFFECTS



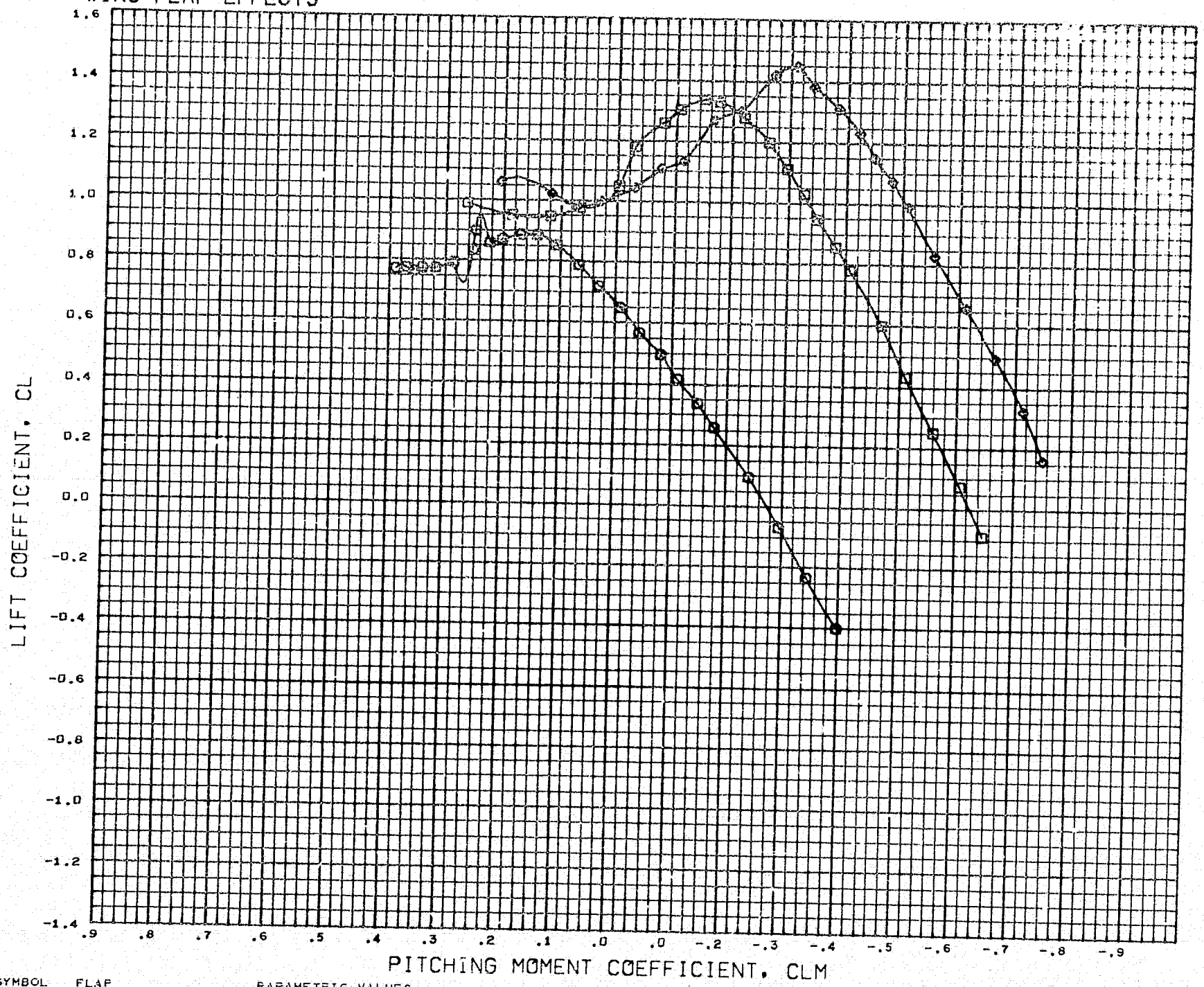
SYMBOL	FLA		PARAMETRIC VALUES
○	0.000	BETA	0.000
□	25.000		
◇	45.000		

DATA HIST. CODE V*B

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.3100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



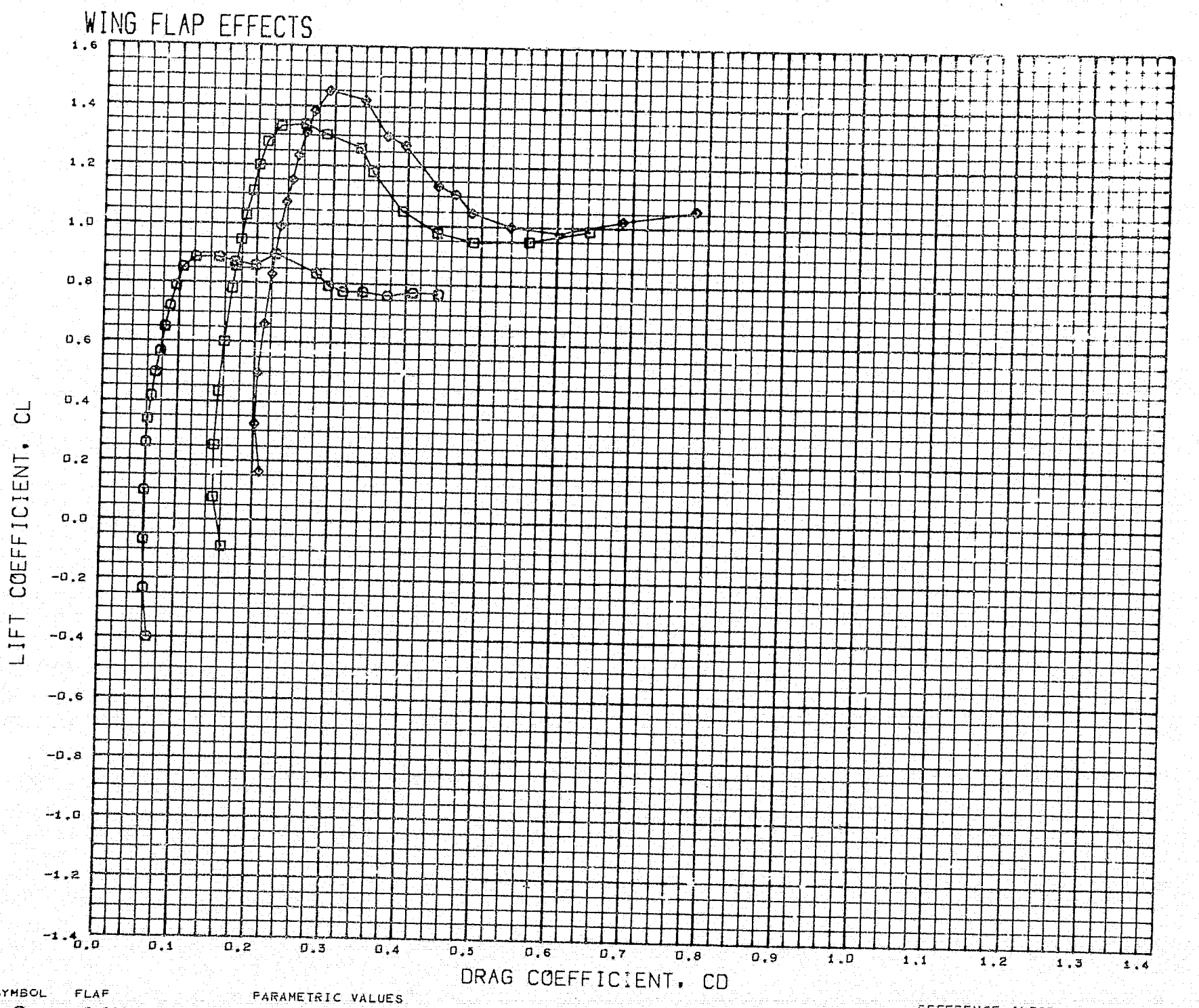
SYMBOL	FLAP	PARAMETRIC VALUES	
○	0.000	BETA	0.000
□	25.000		
◇	45.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1F2G



SYMBOL	FLAP		PARAMETRIC VALUES
○	0.000	BETA	0.000
□	25.000		
◇	45.000		

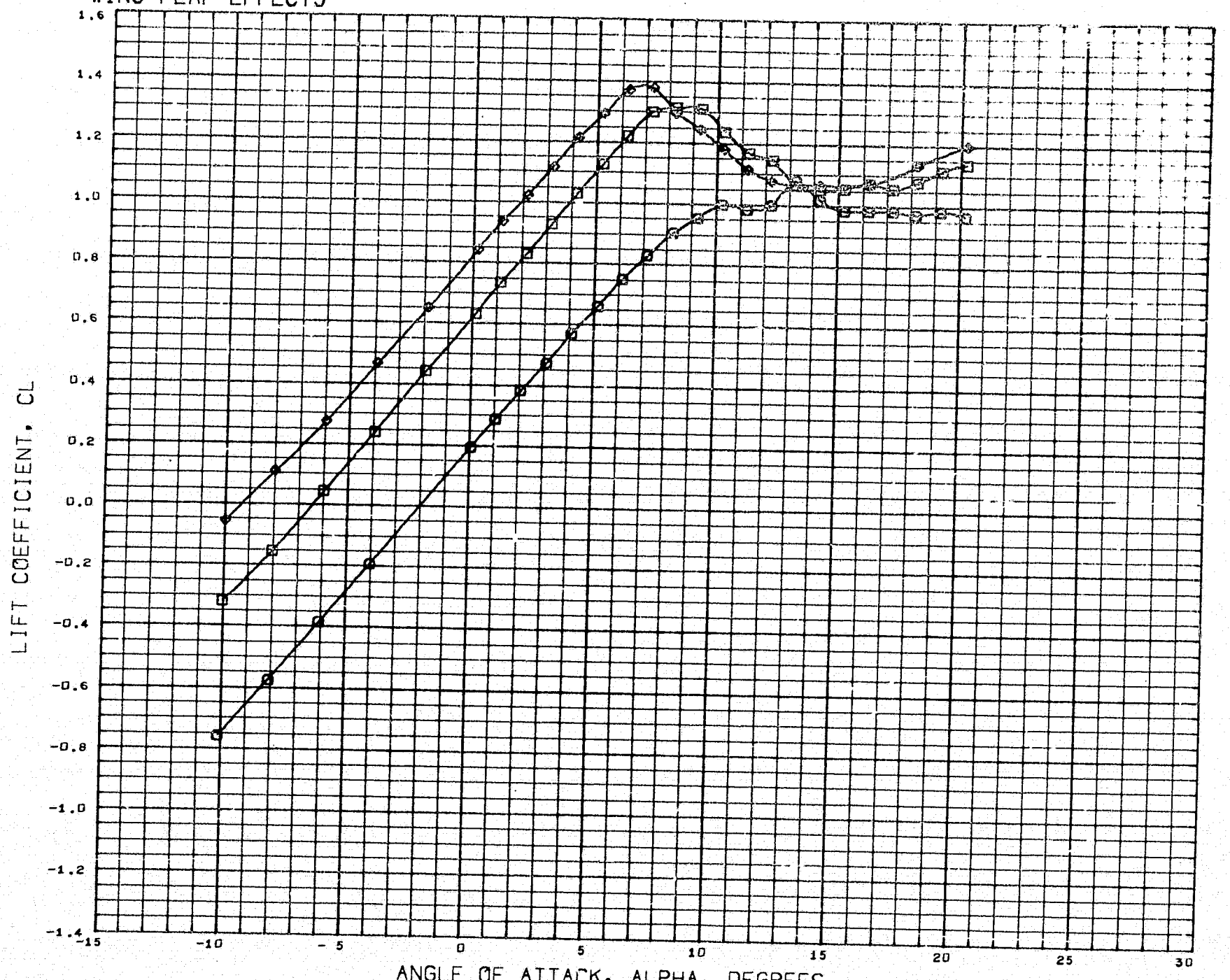
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFD	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1F2G (BCDA40) 29 APR 71 PAGE 47

WING FLAP EFFECTS



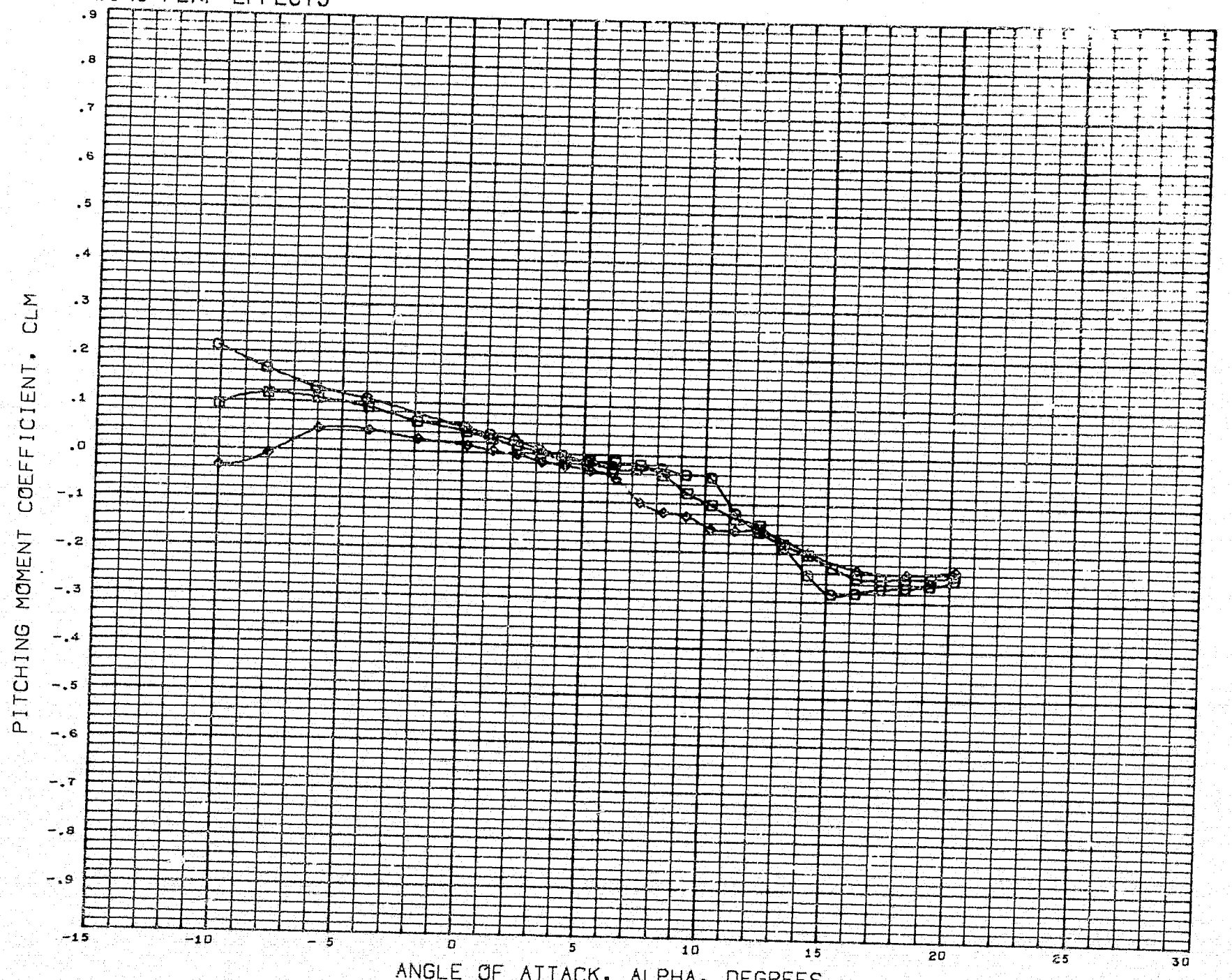
SYMBOL	FLAP		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	25.000	HTAIL	- 5.000	AILRON	0.000
◇	45.000	SPOILR	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

WING FLAP EFFECTS



SYMBOL	FLAP		PARAMETRIC VALUES		
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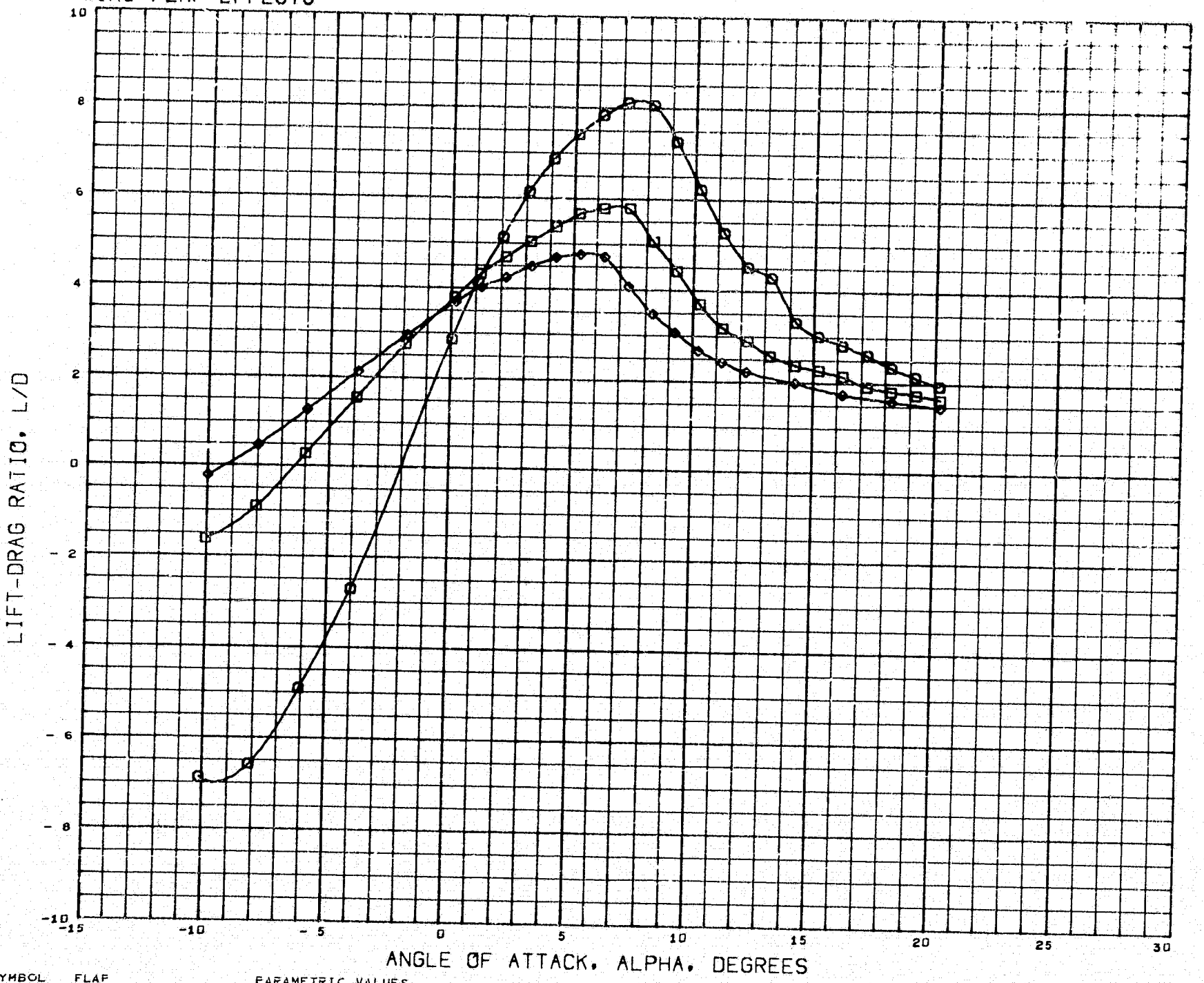
□	25.000	HTAIL	- 5.000	AILRON	0.000
◇	45.000	SPOILR	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



SYMBOL	FLAP		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	25.000	HTAIL	- 5.000	AILRON	0.000
◇	45.000	SPOILR	0.000		

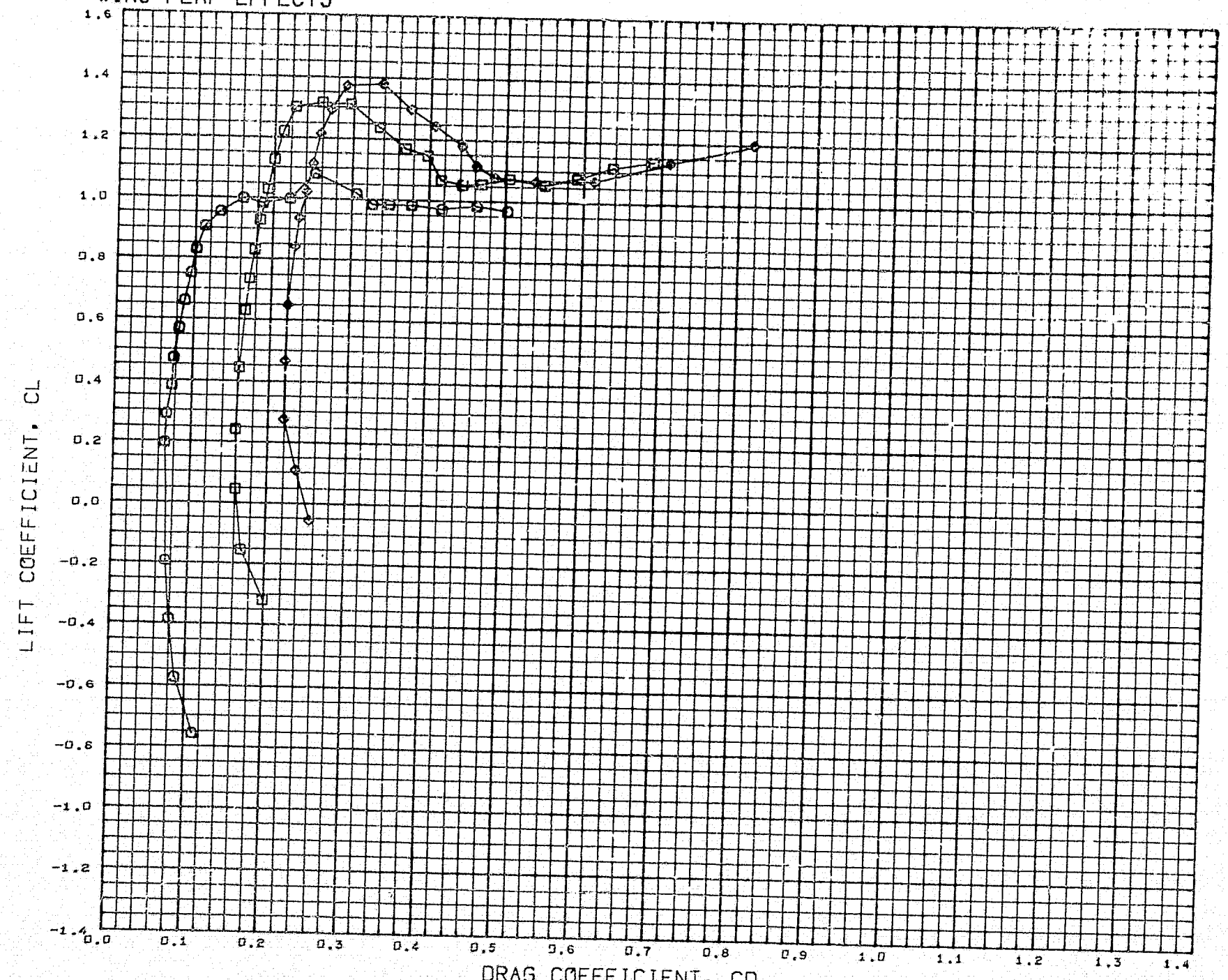
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

WING FLAP EFFECTS



SYMBOL	FLAP		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	25.000	HTAIL	- 5.000	AILRON	0.000
◇	45.000	SPOILR	0.000		

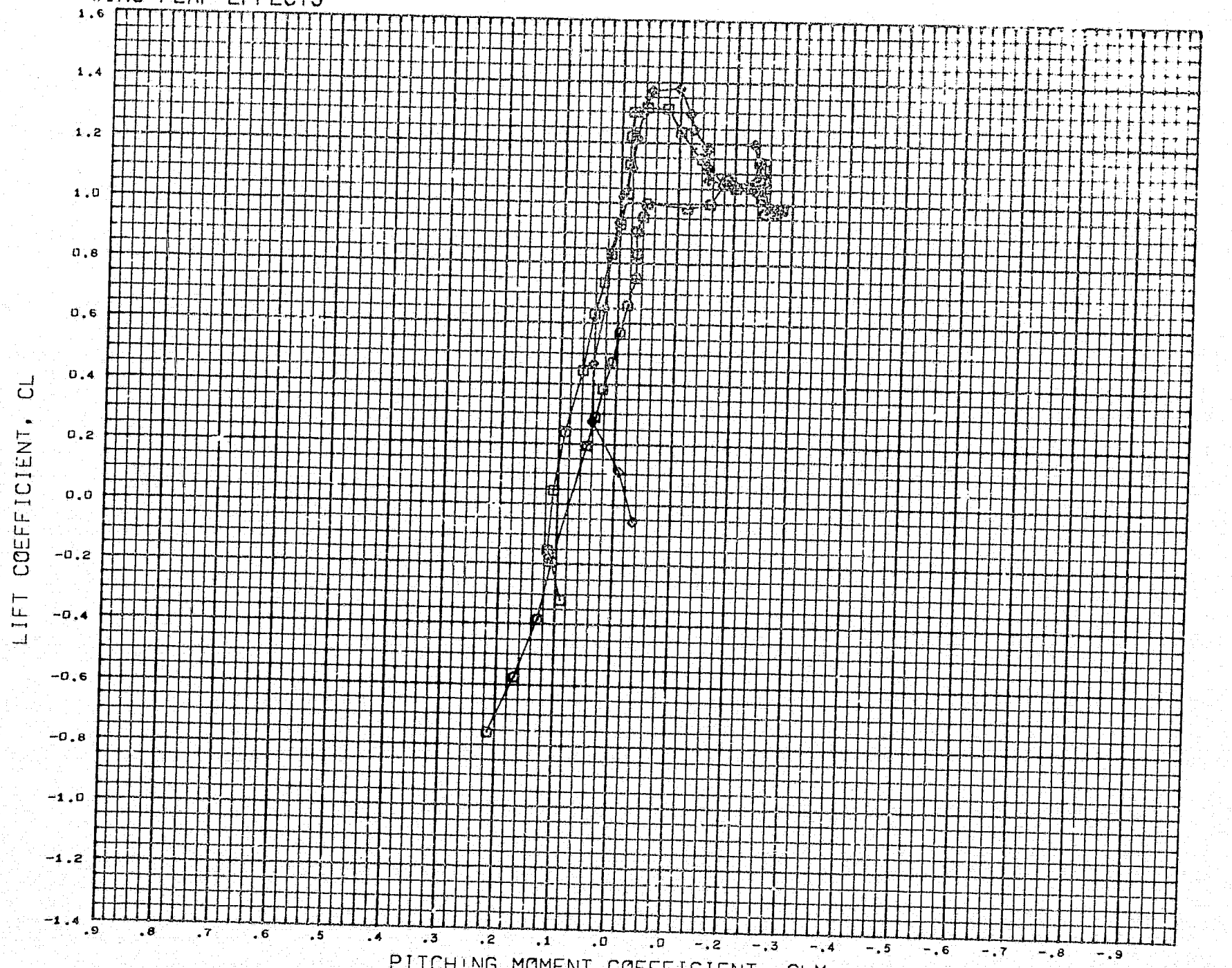
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

WING FLAP EFFECTS



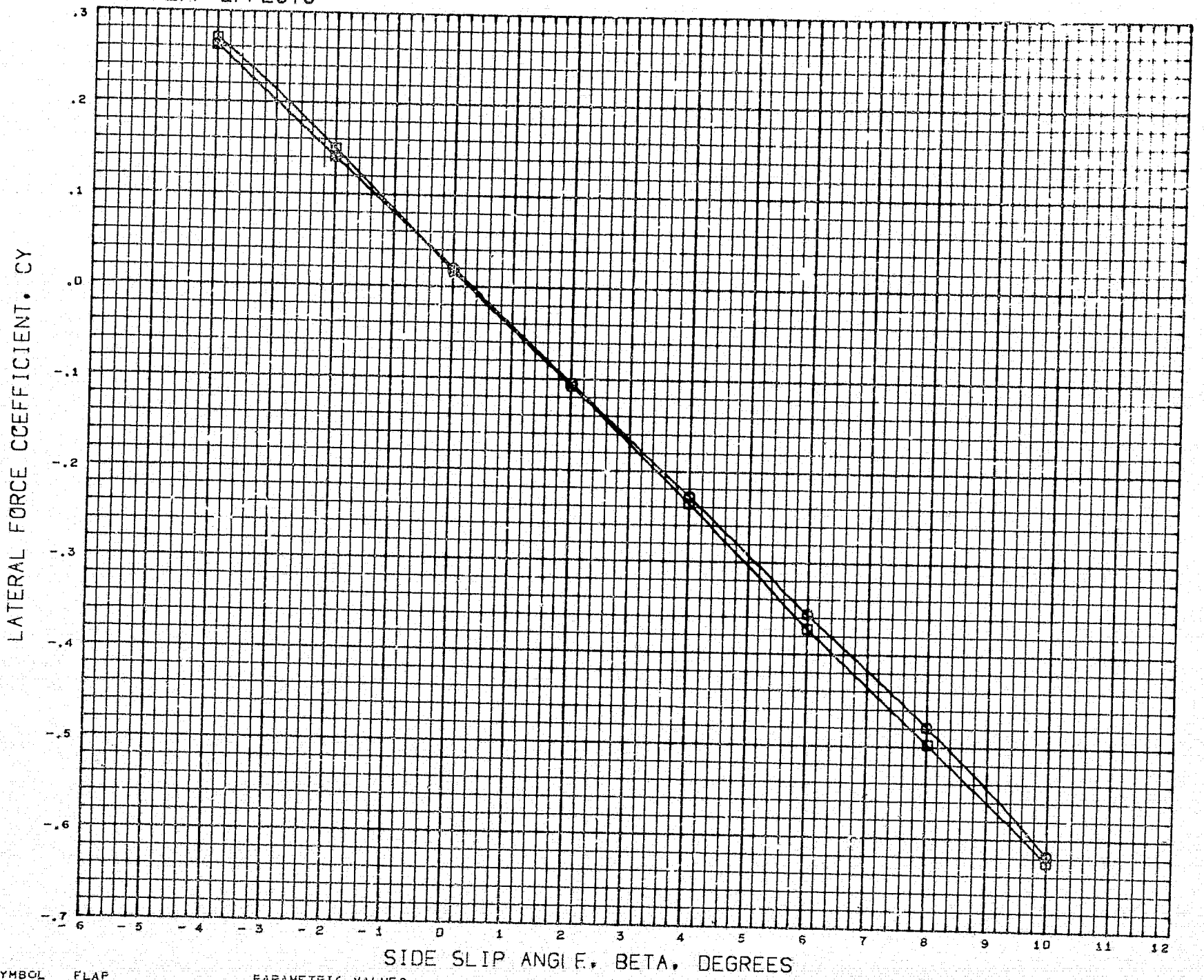
SYMBOL	FLAP		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	25.000	HTAIL	- 5.000	AILRON	0.000
◇	45.000	SPOILR	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION		
REFS	437.7704	SQ. IN
REFL	8.7100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1

WING FLAP EFFECTS



SYMBOL	FLAP		PARAMETRIC VALUES		
O	25.000	ELEVTR	0.000	ALPHA	0.000
□	45.000	HTAIL	- 5.000		

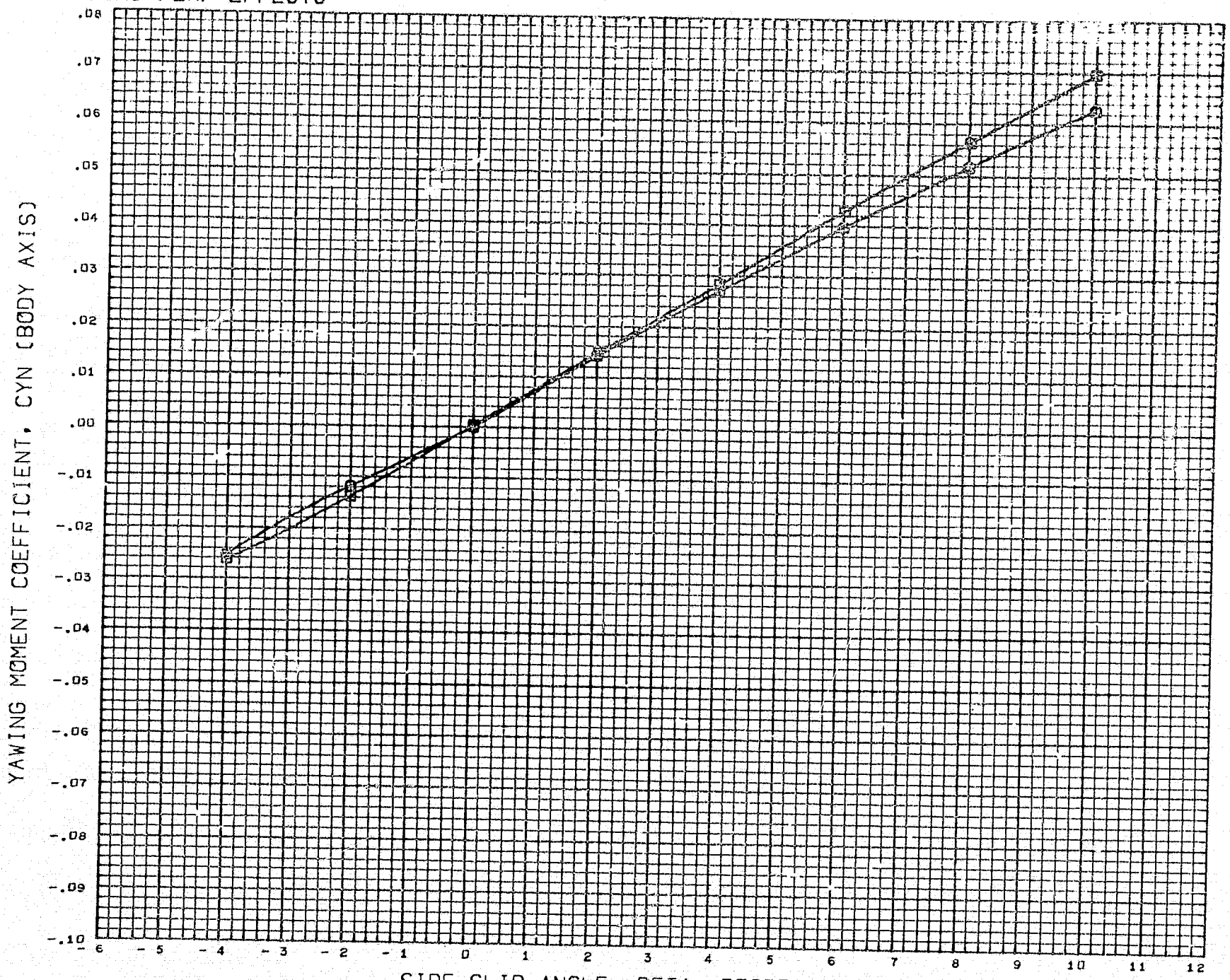
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

WING FLAP EFFECTS



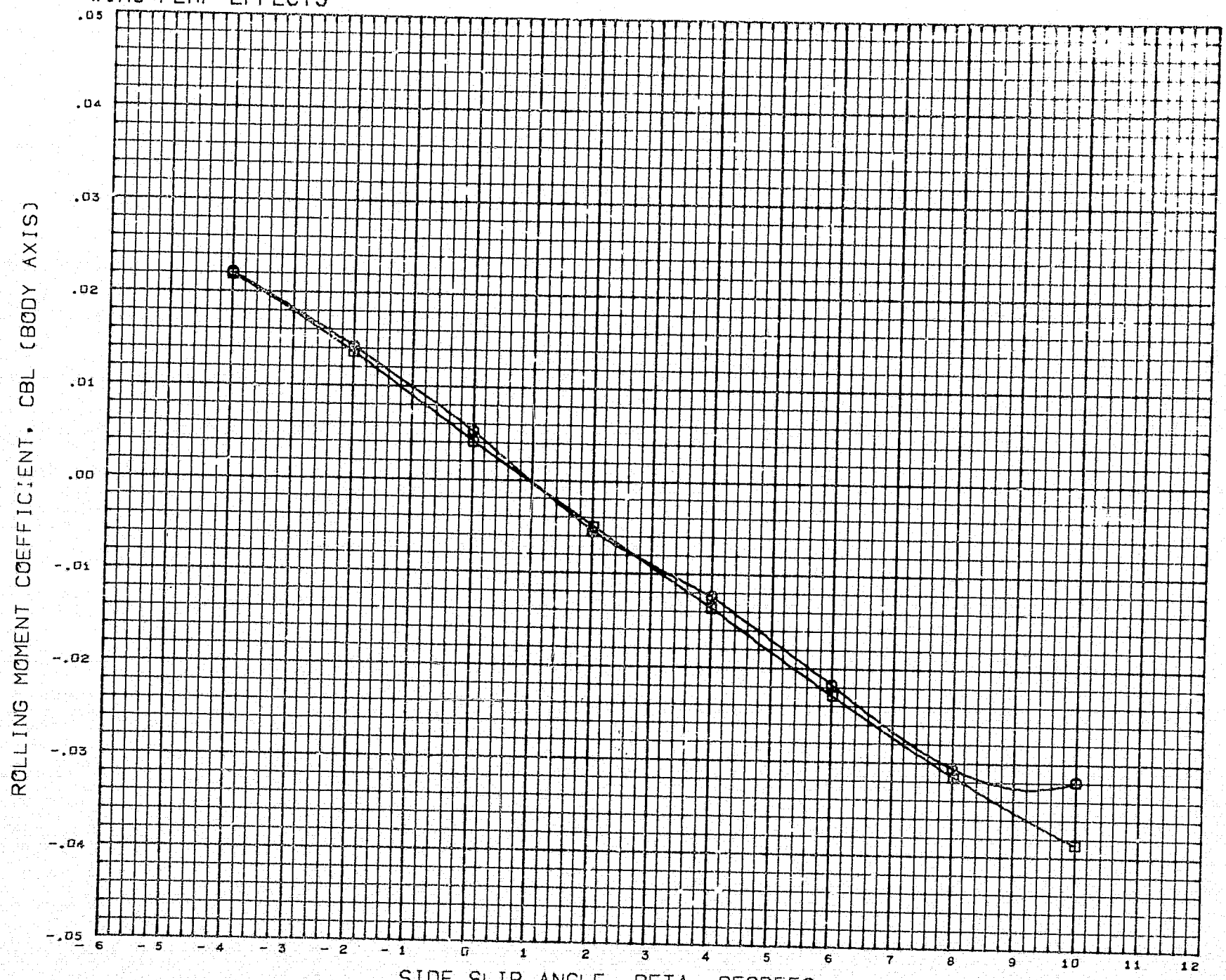
SYMBOL	FLAP		PARAMETRIC VALUES		
O	25.000	ELEVTR	0.000	ALPHA	0.000
□	45.000	HTAIL	- 5.000		

DATA HIST. CODE **

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0200	PER CE

WING FLAP EFFECTS



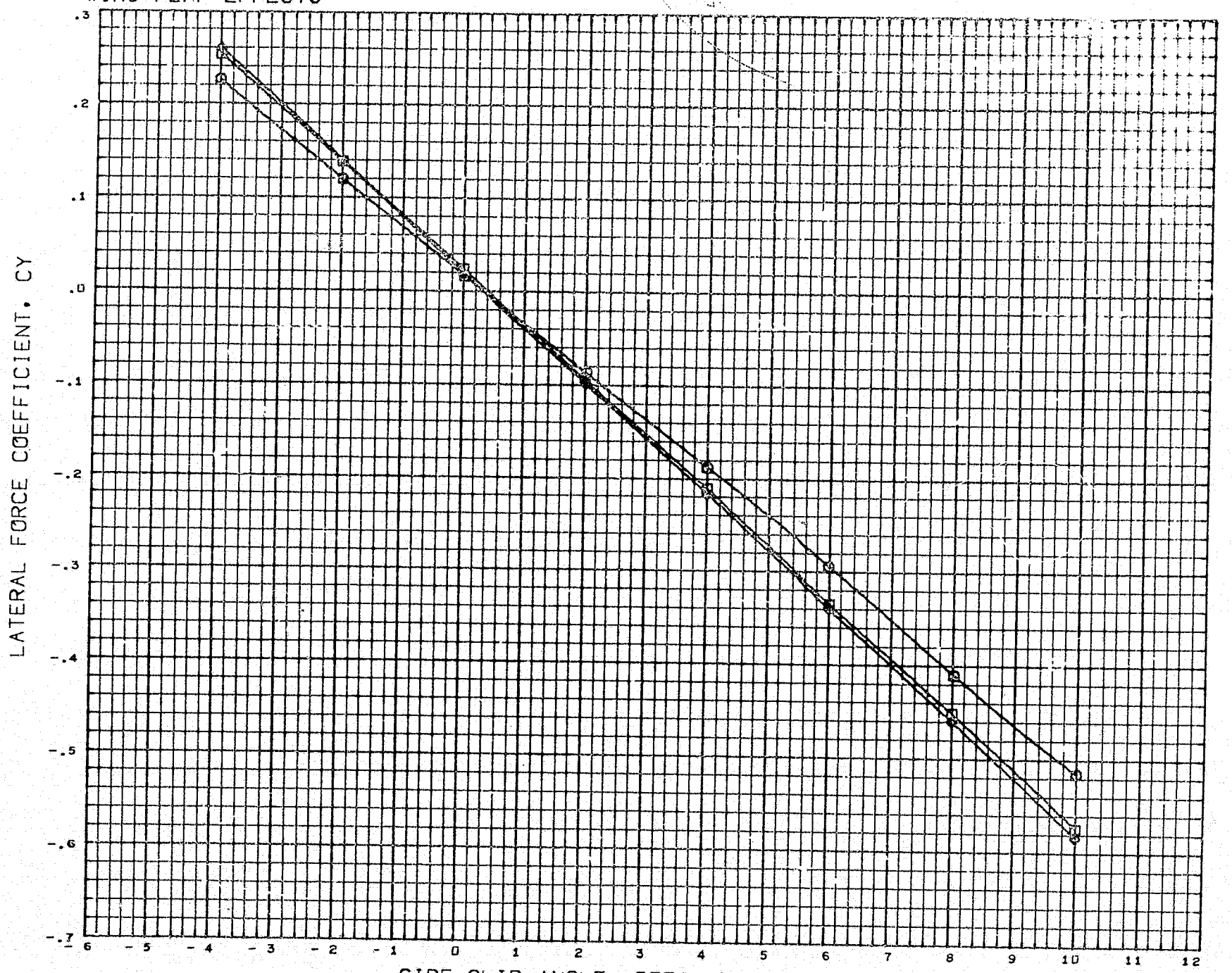
SYMBOL	FLAP		PARAMETRIC VALUES		
O	25.000	ELEVTR	0.000	ALPHA	5.000
□	45.000	HTAIL	- 5.000		

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



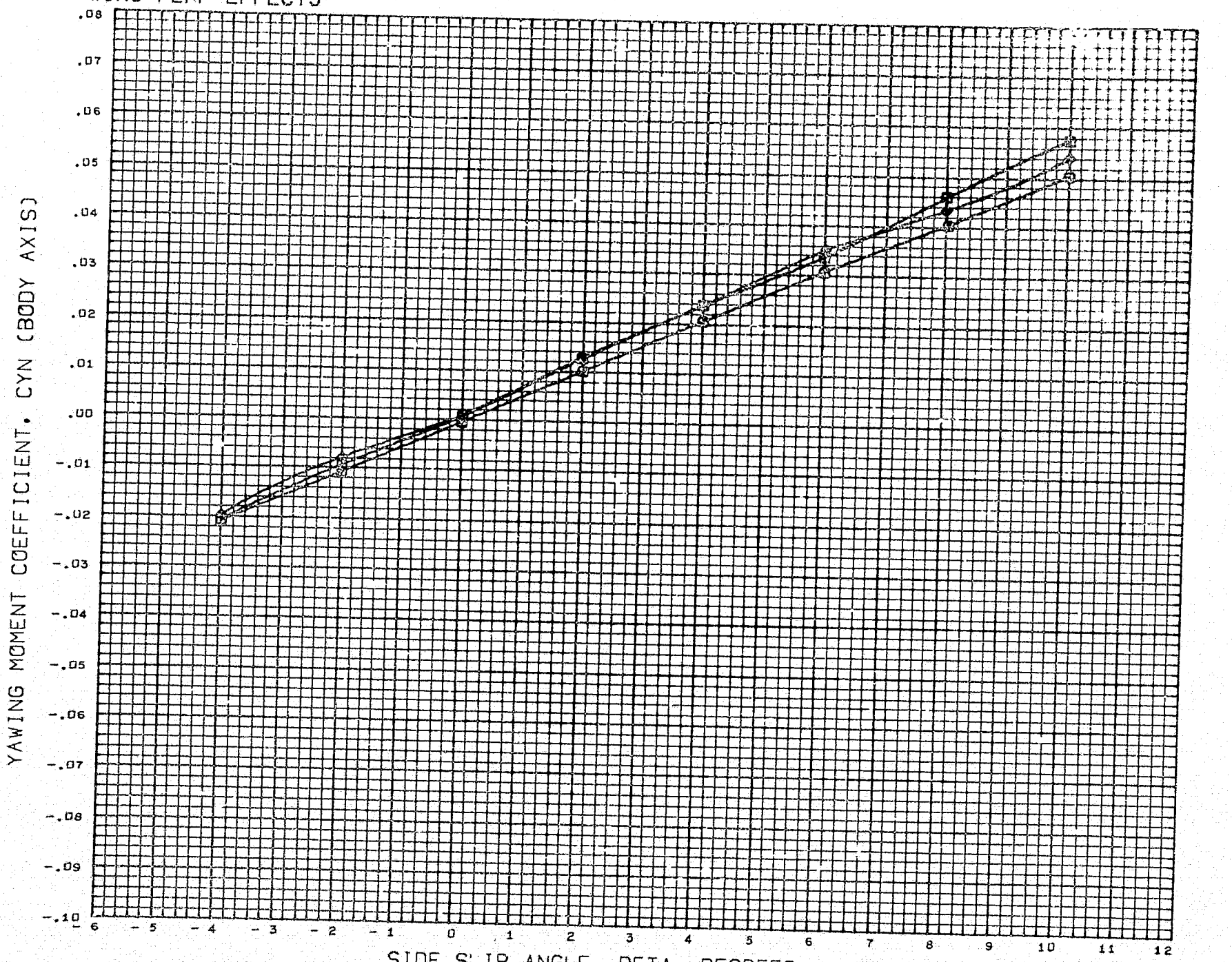
SYMBOL	FLAP		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	ALPHA	6.000
□	25.000	HTAIL	- 5.000		
◇	45.000				

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFb	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.4000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*EM

WING FLAP EFFECTS

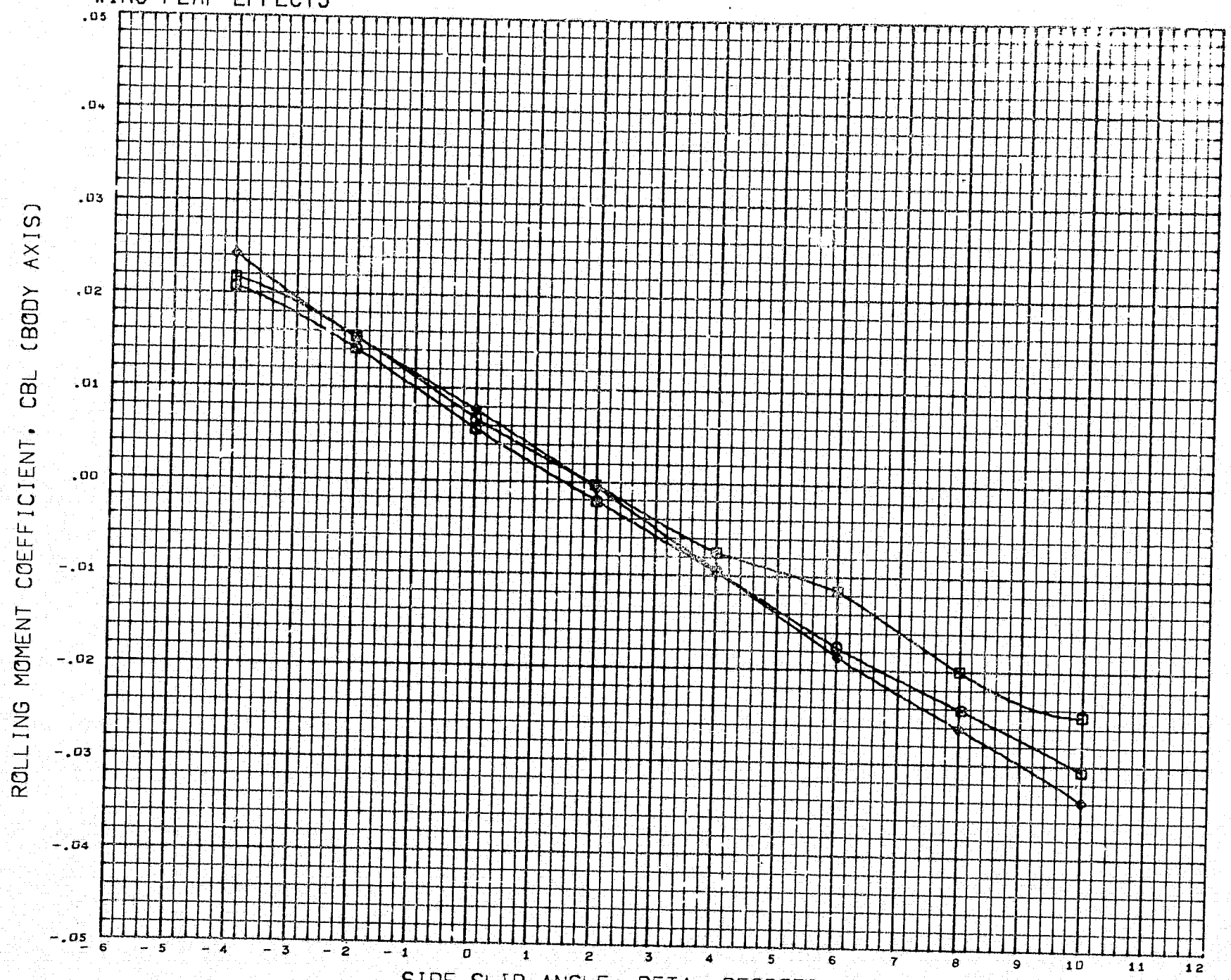


SYMBOL	FLAP	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	ALPHA	6.000
□	25.000	HTAIL	- 5.000		
◇	45.000				

DATA HIST. CODE V*EM

REFERENCE INFORMATION		
REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



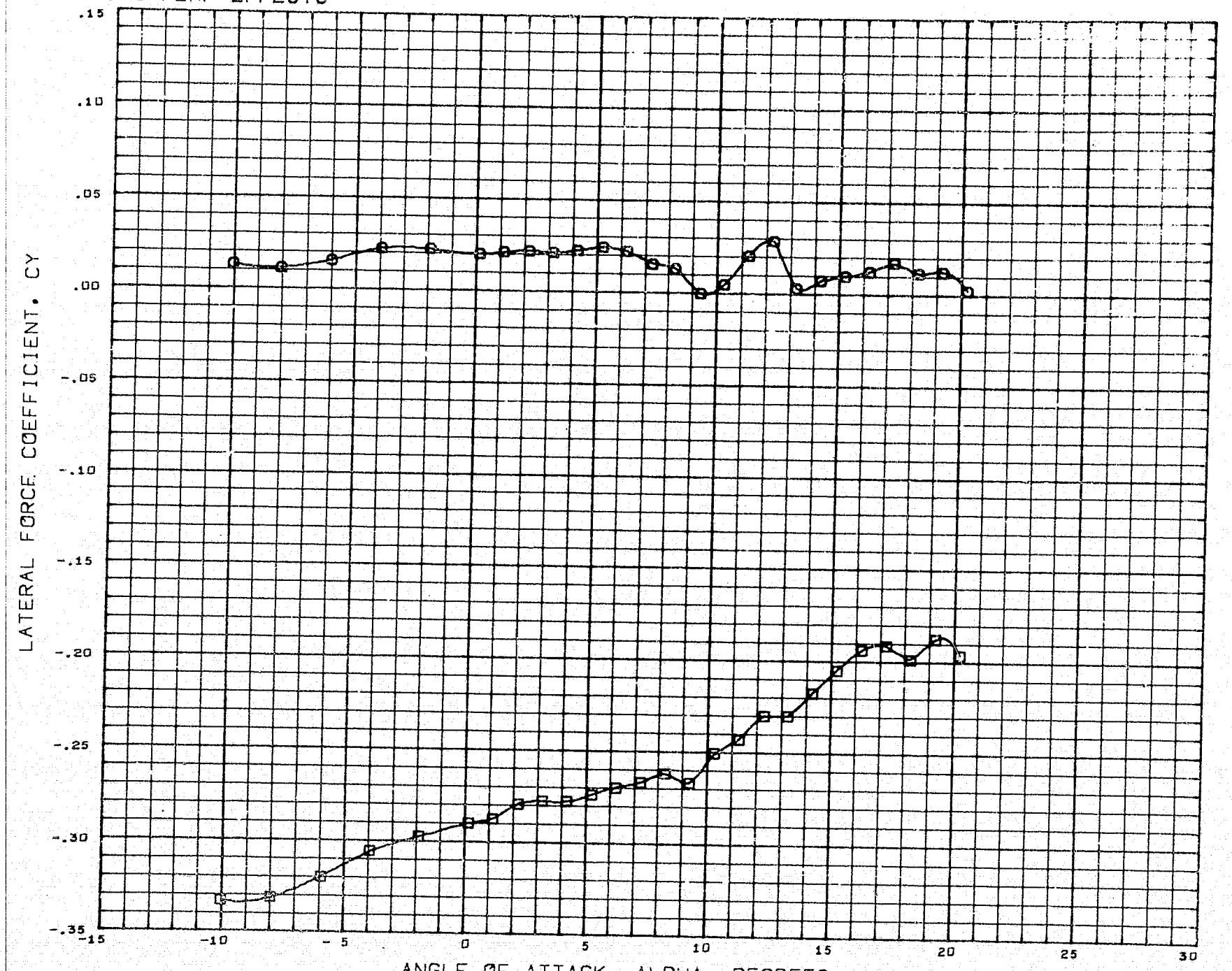
SYMBOL	FLAP		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	ALPHA	6.000
□	25.000	HTAIL	- 5.000		
◇	45.000				

DATA HIST. CODE V*EM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9403	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



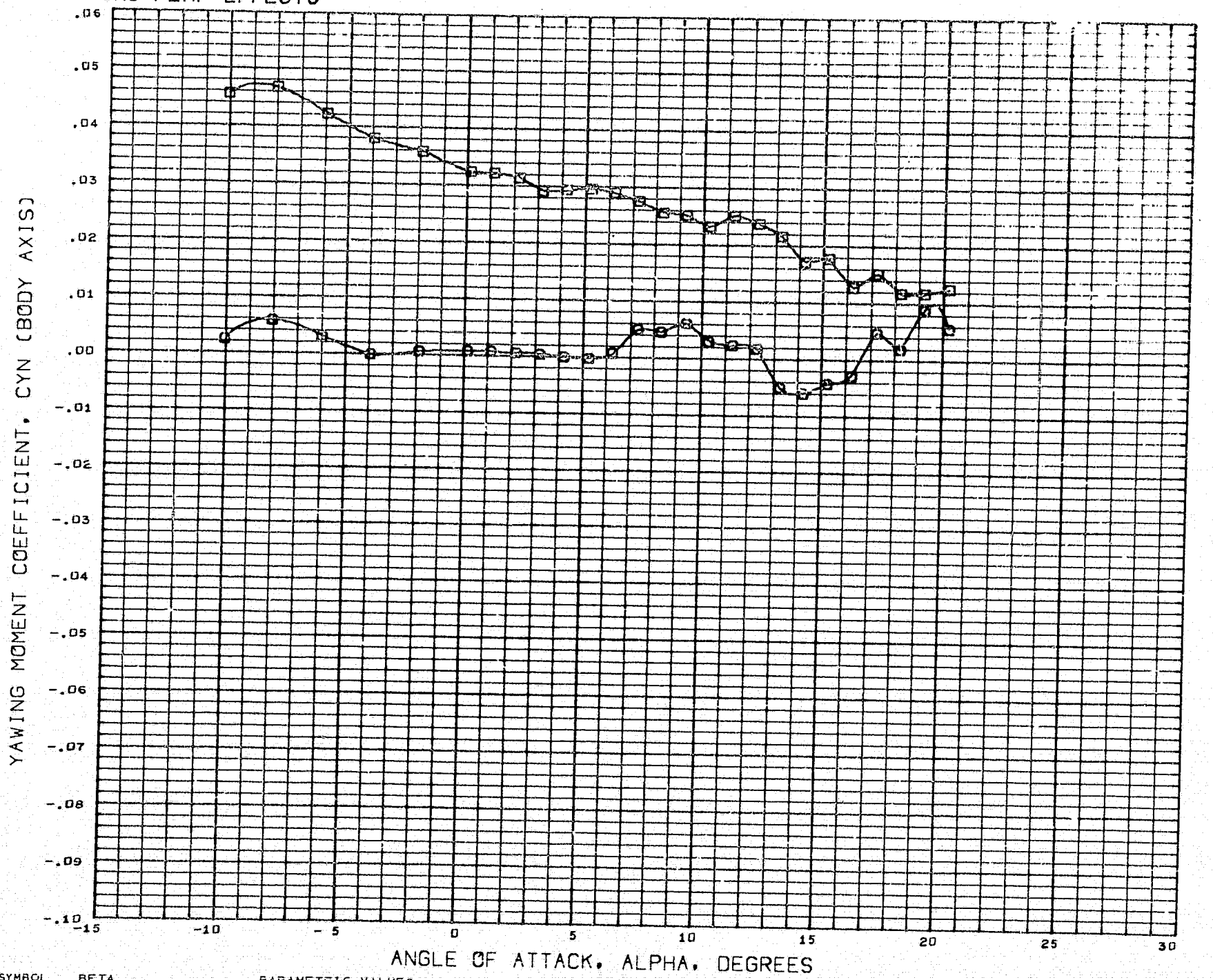
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	25.000		

DATA HIST. CODE V*E*A

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



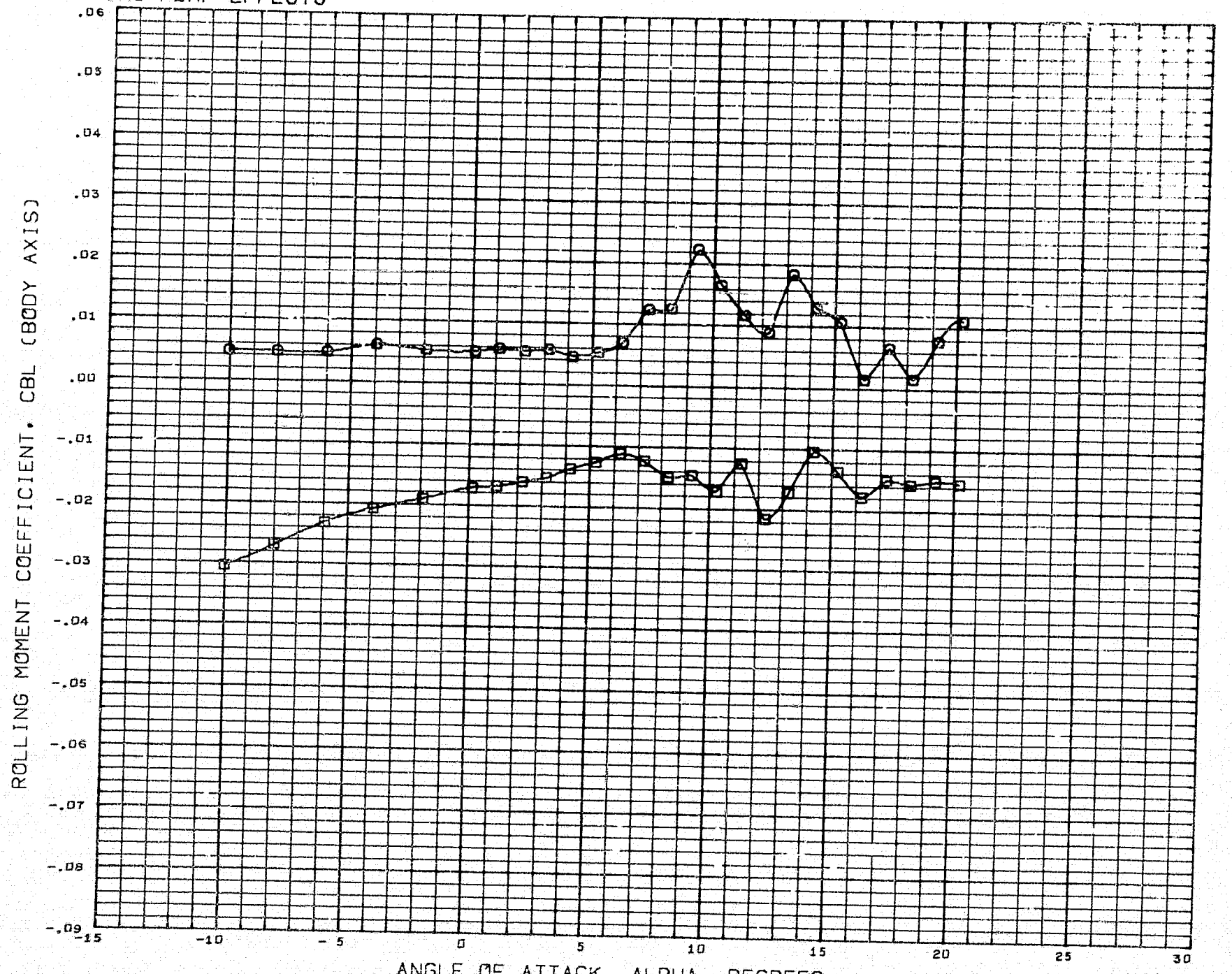
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	25.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*A

WING FLAP EFFECTS



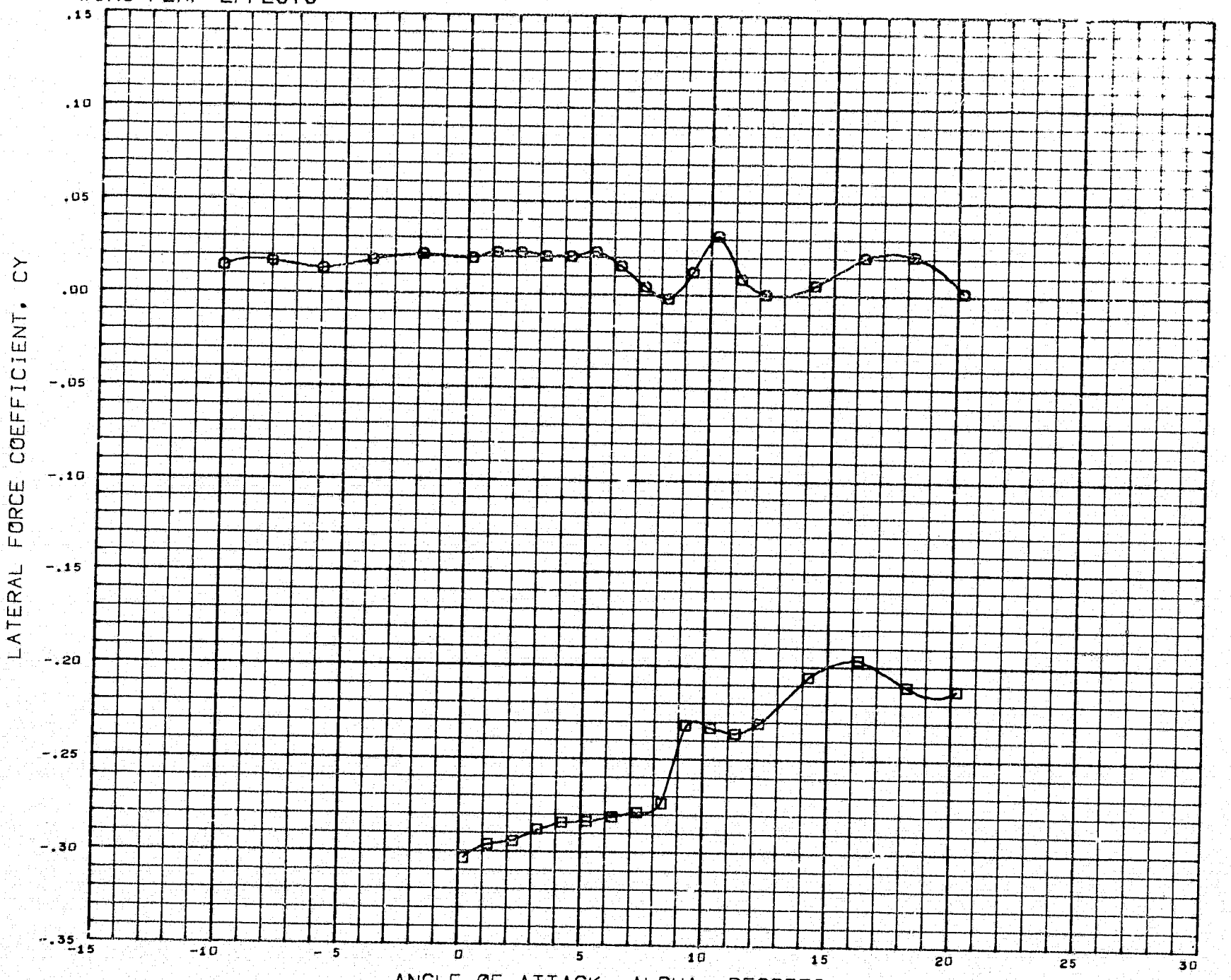
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	25.000		

DATA HIST. CODE V*E*A

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

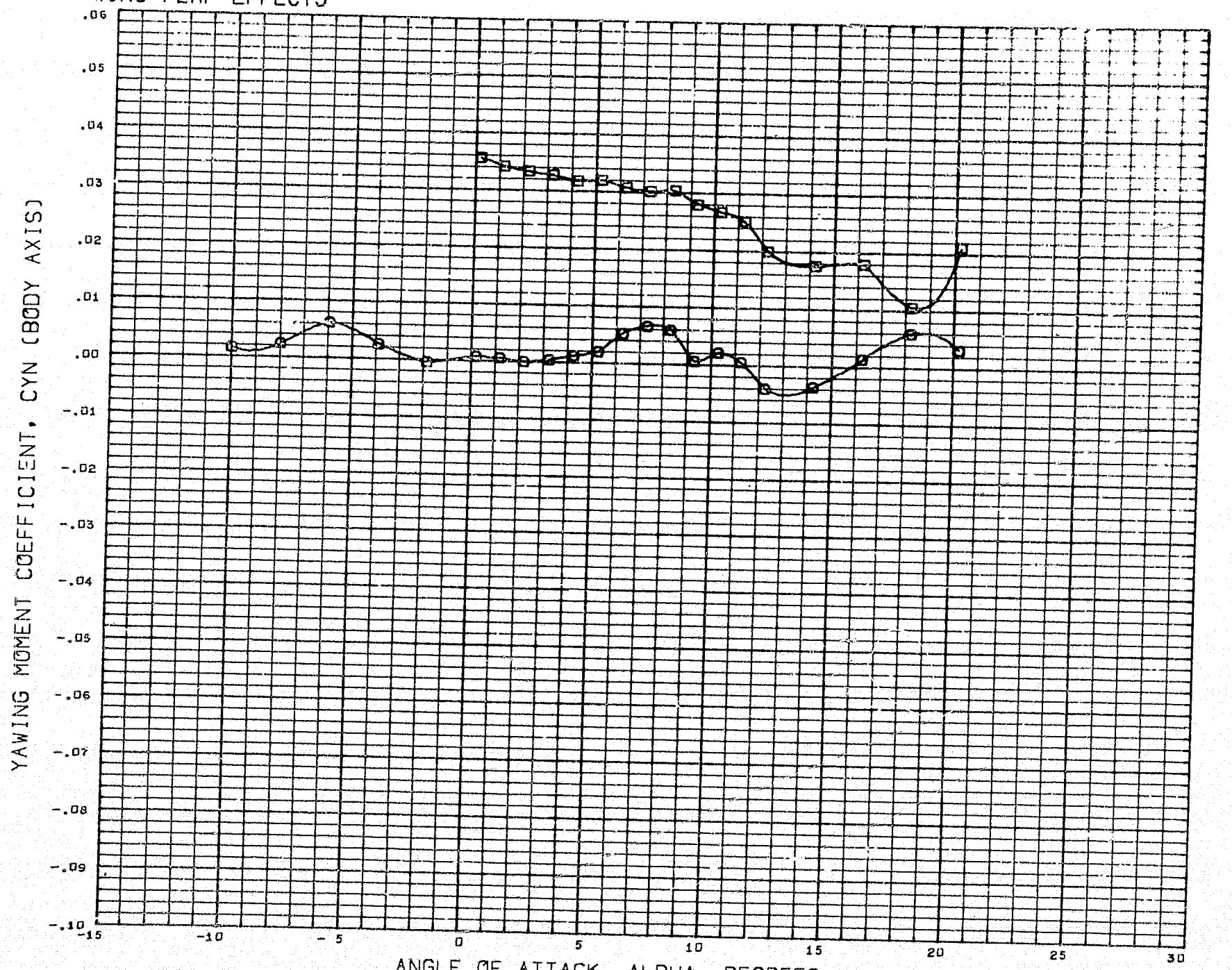
ELEVTR	0.000	HTAIL	- 5.000
FLAP	45.000	SP-L	0.000
SP-R	0.000		

DATA HIST. CODE V*E*A

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



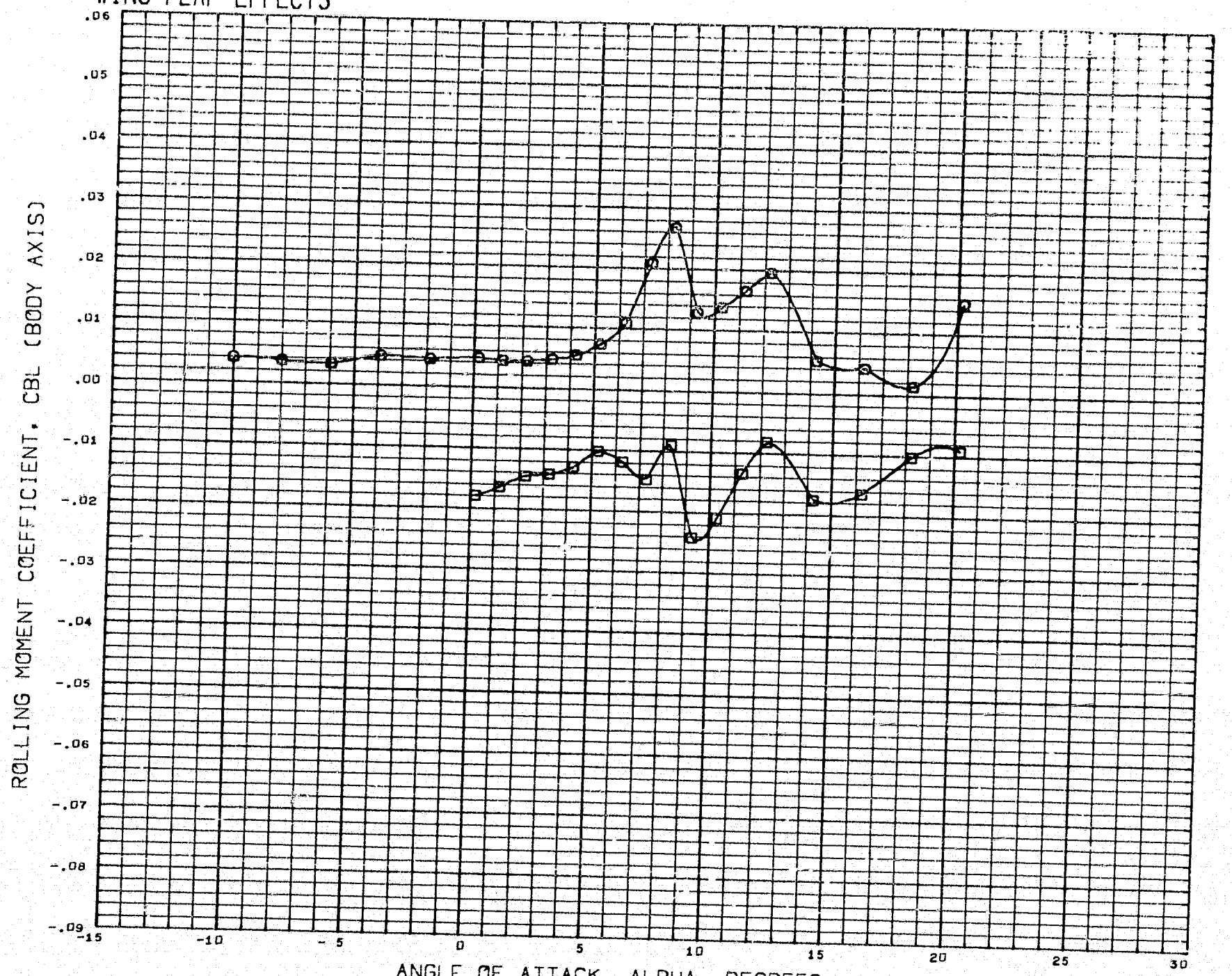
SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	45.000	SP-L	0.000
		SP-R	0.000		

DATA HIST. CODE V*E*A

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



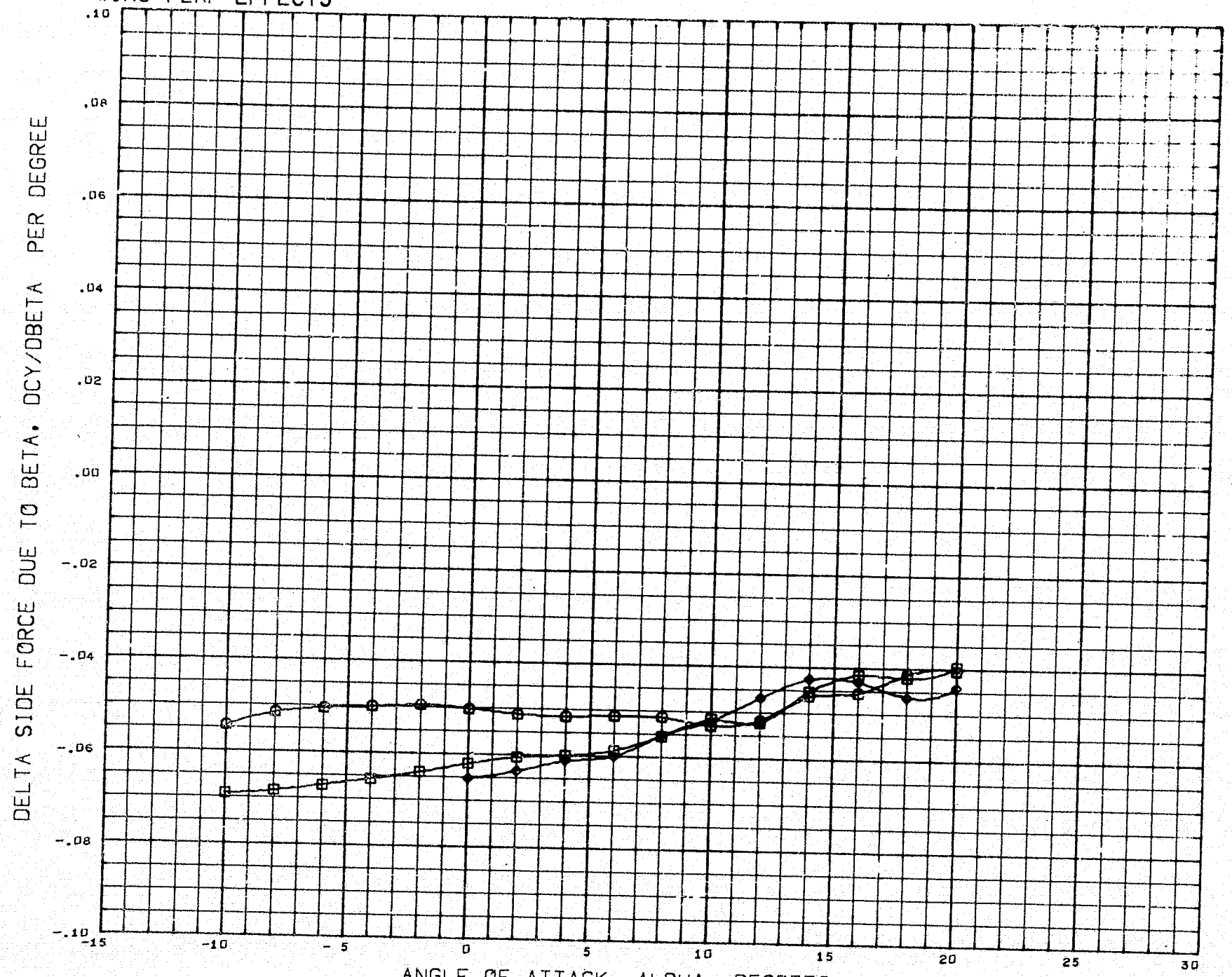
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	45.000	SF-L	0.000
		SF-R	0.000		

DATA HIST. CODE V*E*A

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



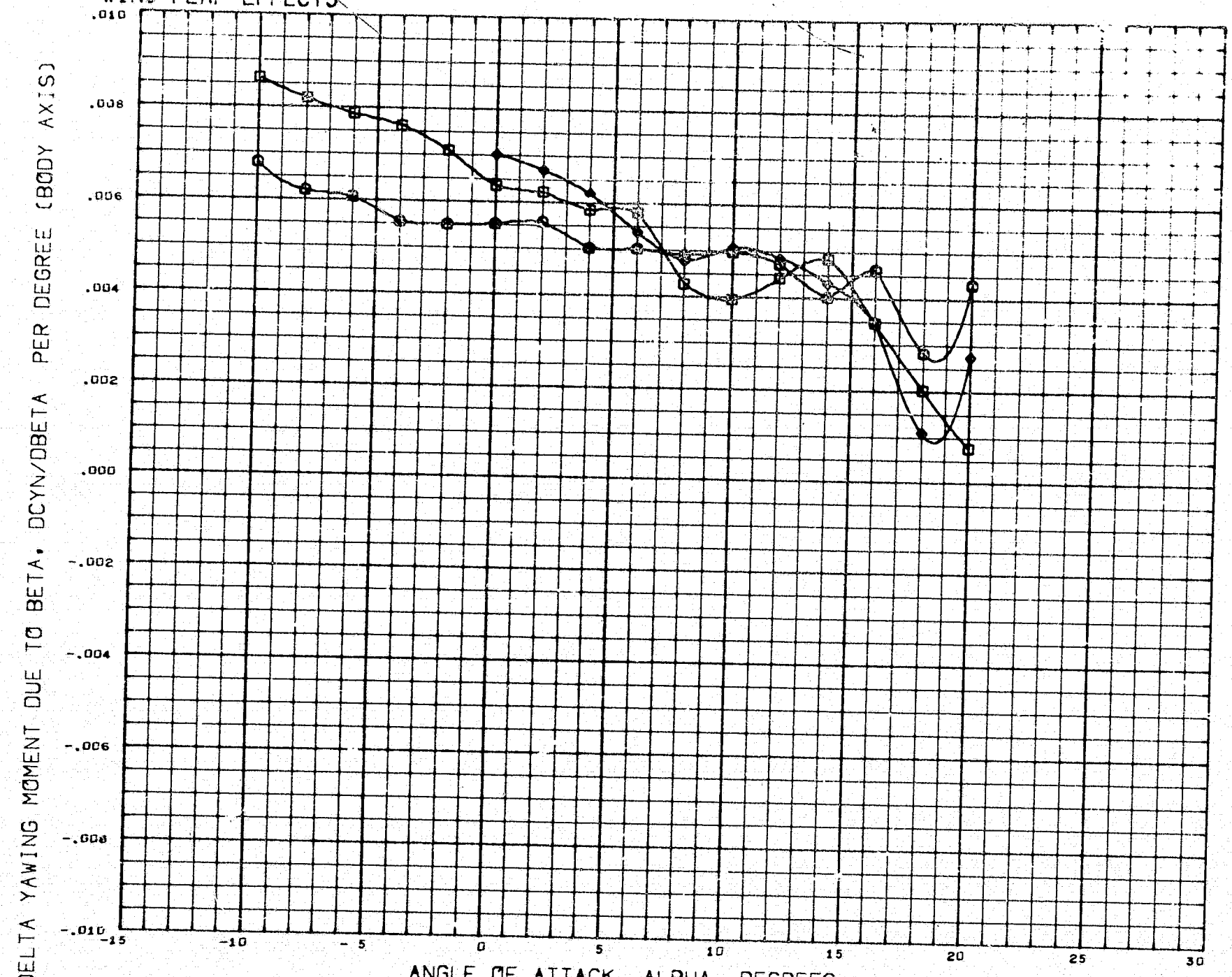
SYMBOL	FLAP	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	BETA	0.000
□	25.000	HTAIL	-5.000	SPOILR	0.000
◇	45.000	AILRON	0.000	SP-L	0.000
		SP-R	0.000		

DATA HIST. CODE *PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



SYMBOL	FLAP
○	0.000
□	25.000
◇	45.000

PARAMETRIC VALUES

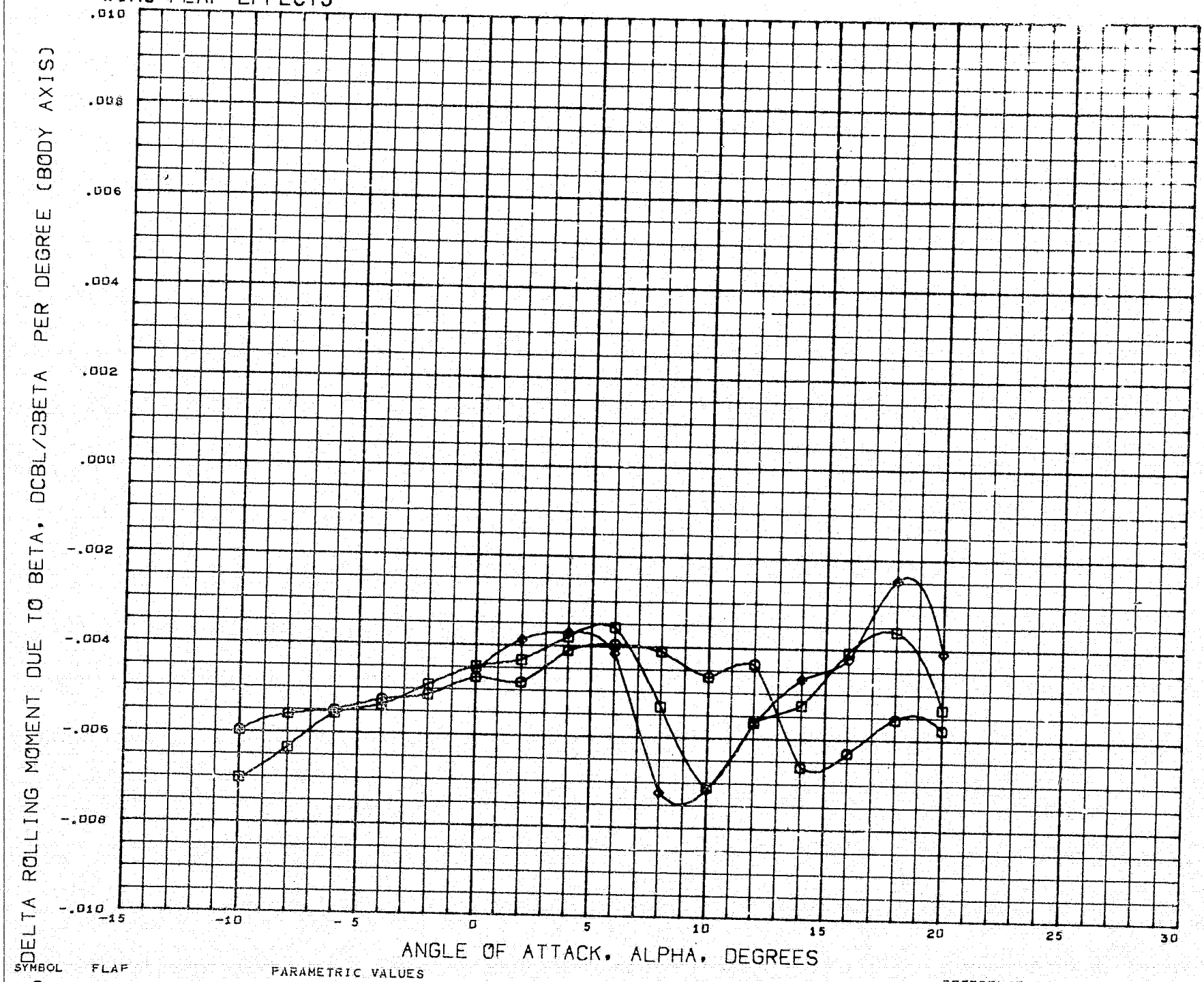
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	SPOILR	0.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

DATA HIST. CODE #PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9490	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING FLAP EFFECTS



SYMBOL	FLAP
O	0.000
□	25.000
◇	45.000

PARAMETRIC VALUES

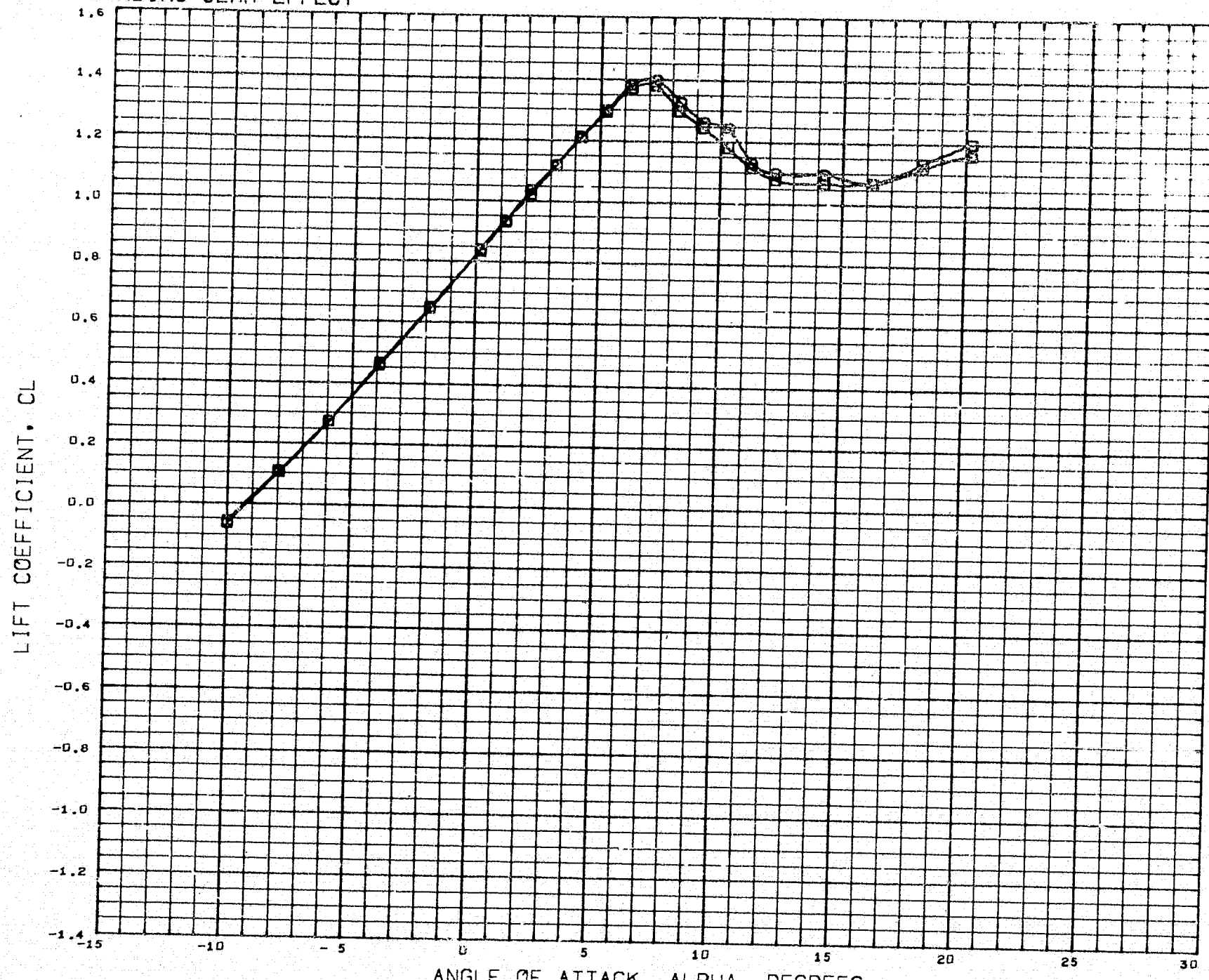
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	SPOILR	0.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

DATA HIST. CODE =PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA10)	O	4.0 PC 01 LSWT 237 B4W2V1H1F2
(DCDA20)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2S

PARAMETRIC VALUES

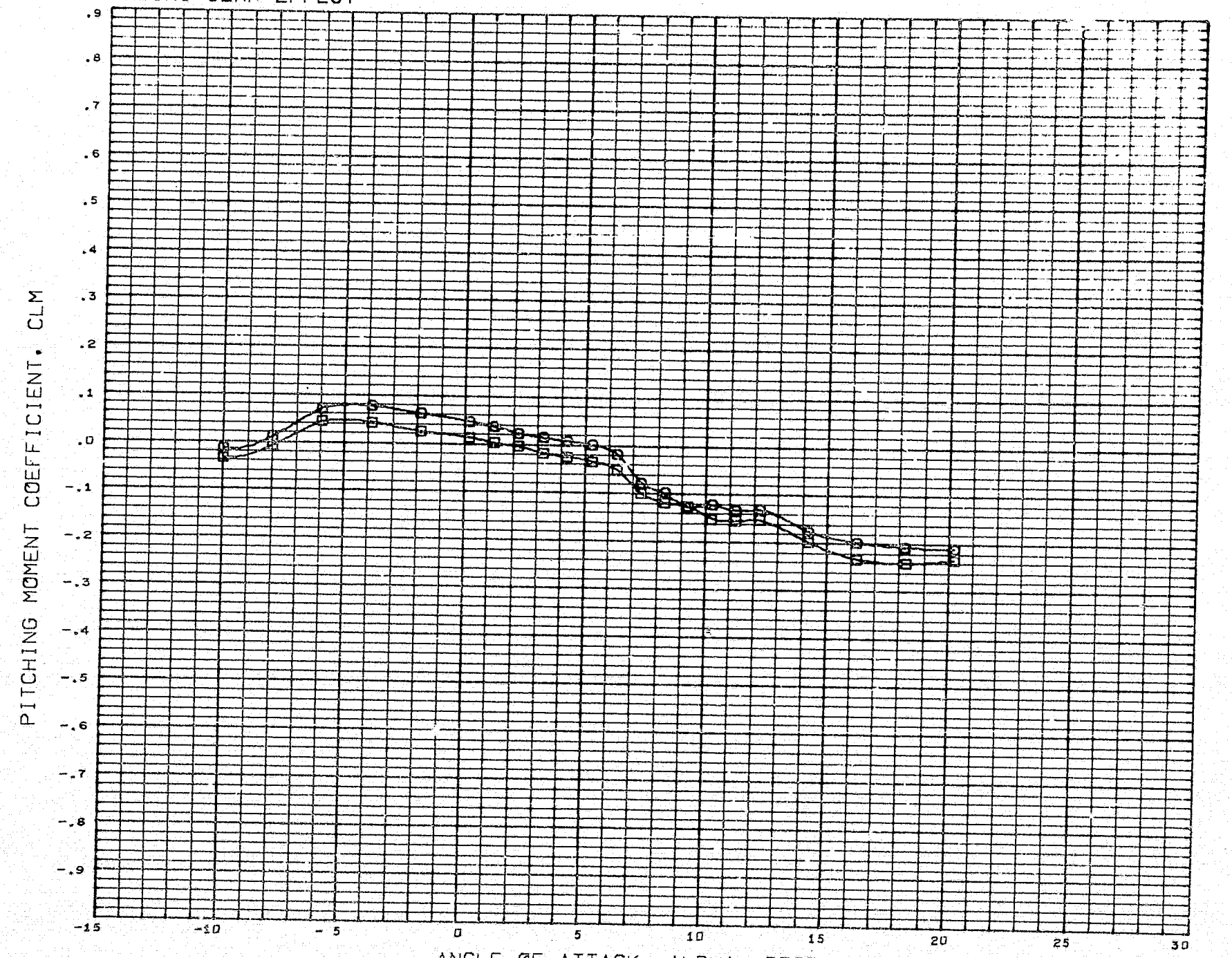
BETA	0.000	HTAIL -	5.000
FLAP	45.000		

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7700	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BCDA1D) □ 4.0 FC C1 LSWT 237 B4W2V1H1F2

(DCDA2D) □ 4.0 FC D1 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

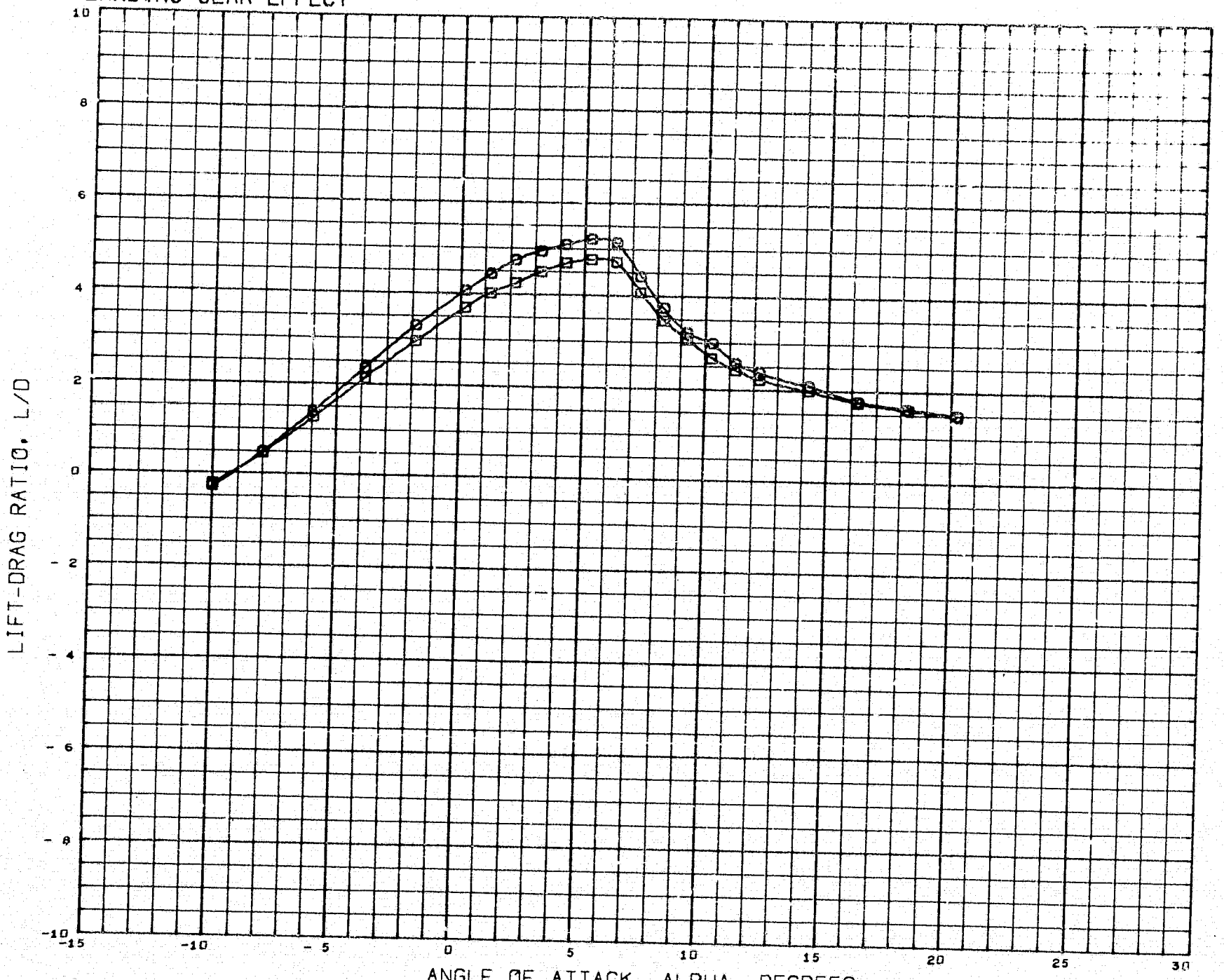
FLAP 45.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7701	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA10)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(DCDA20)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

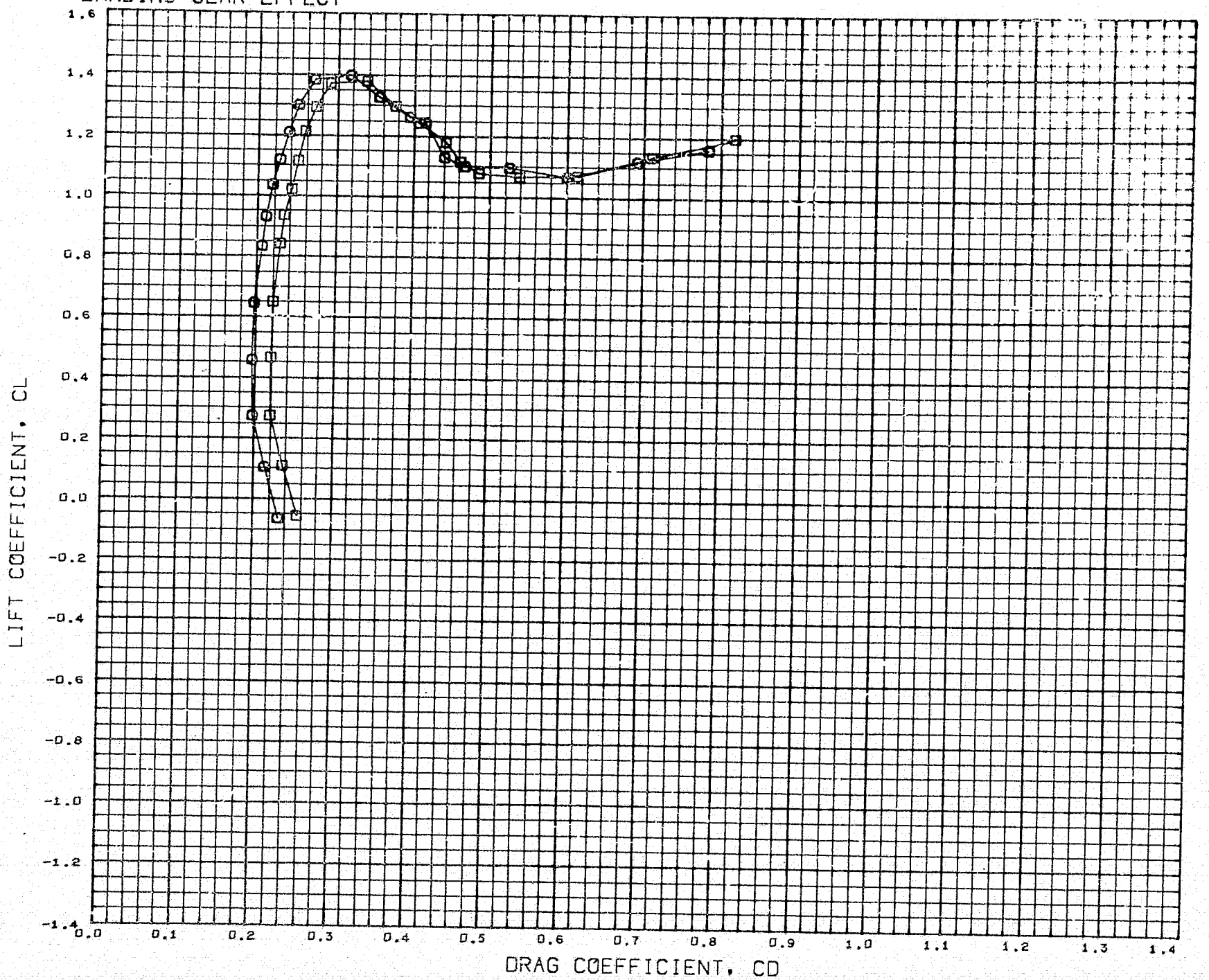
BETA	0.000	HTAIL	- 5.000
FLAP	45.000		

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5106	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA1D)	O	4.0 FC 01 LSWT 237 B4W2V1H1F2
(DCDA2D)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2G

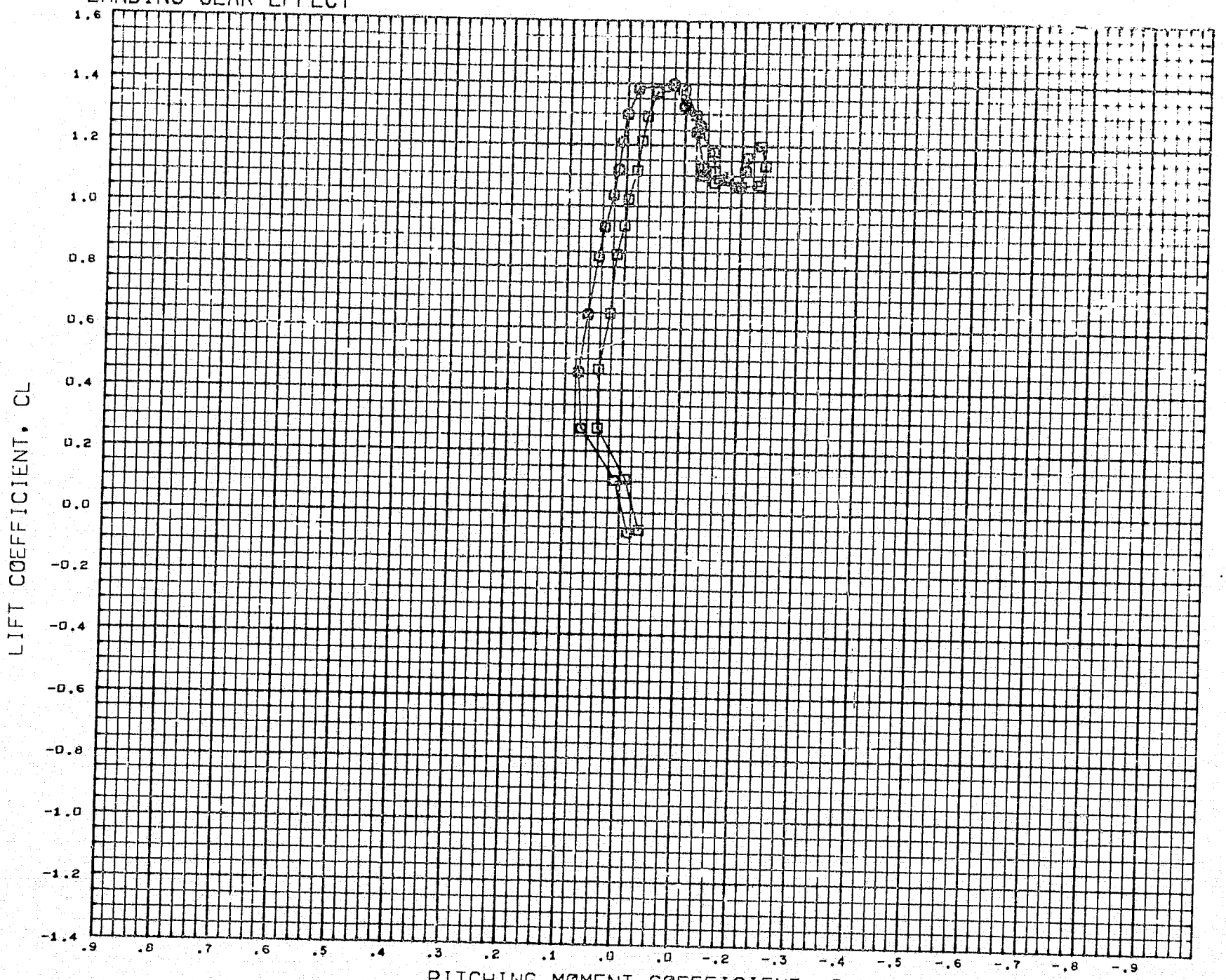
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
FLAP	45.000		
ELEVTR	0.000		

REFERENCE INFORMATION

REFS	437.770	SQ. IN
REFL	6.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA1G)	O	4.0 PC G1 LSWT 237 B4W2V1H1F2
(DCDA2G)	□	4.0 PC G1 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

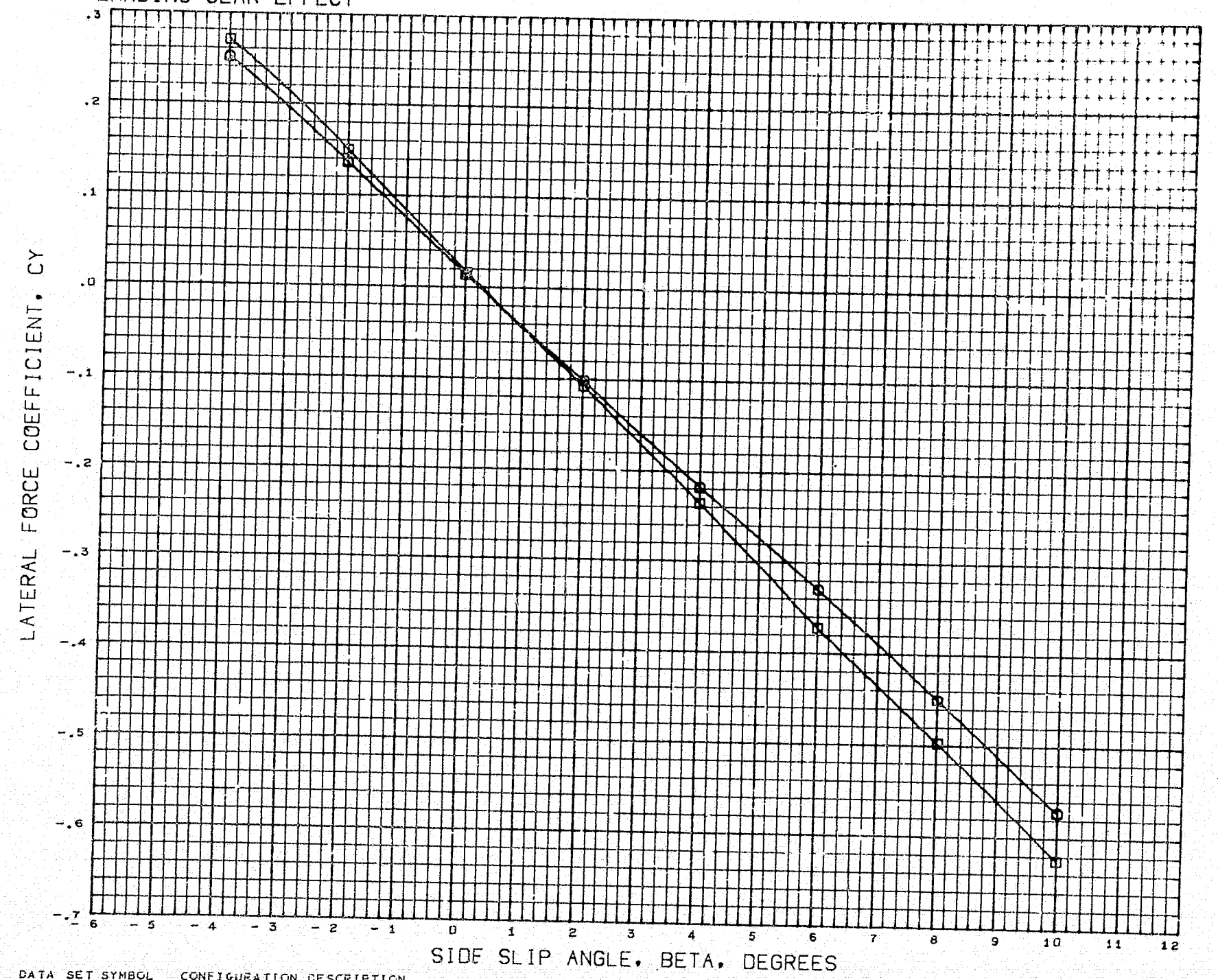
BETA	0.000	HTAIL	-	5.000
FLAP	45.000			

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7714	SQ. IN
REFL	0.5.00	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCDA12)	○	4.0 PC 01 LSWT 237 B1W2V1H1F2
(BCDA22)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2G

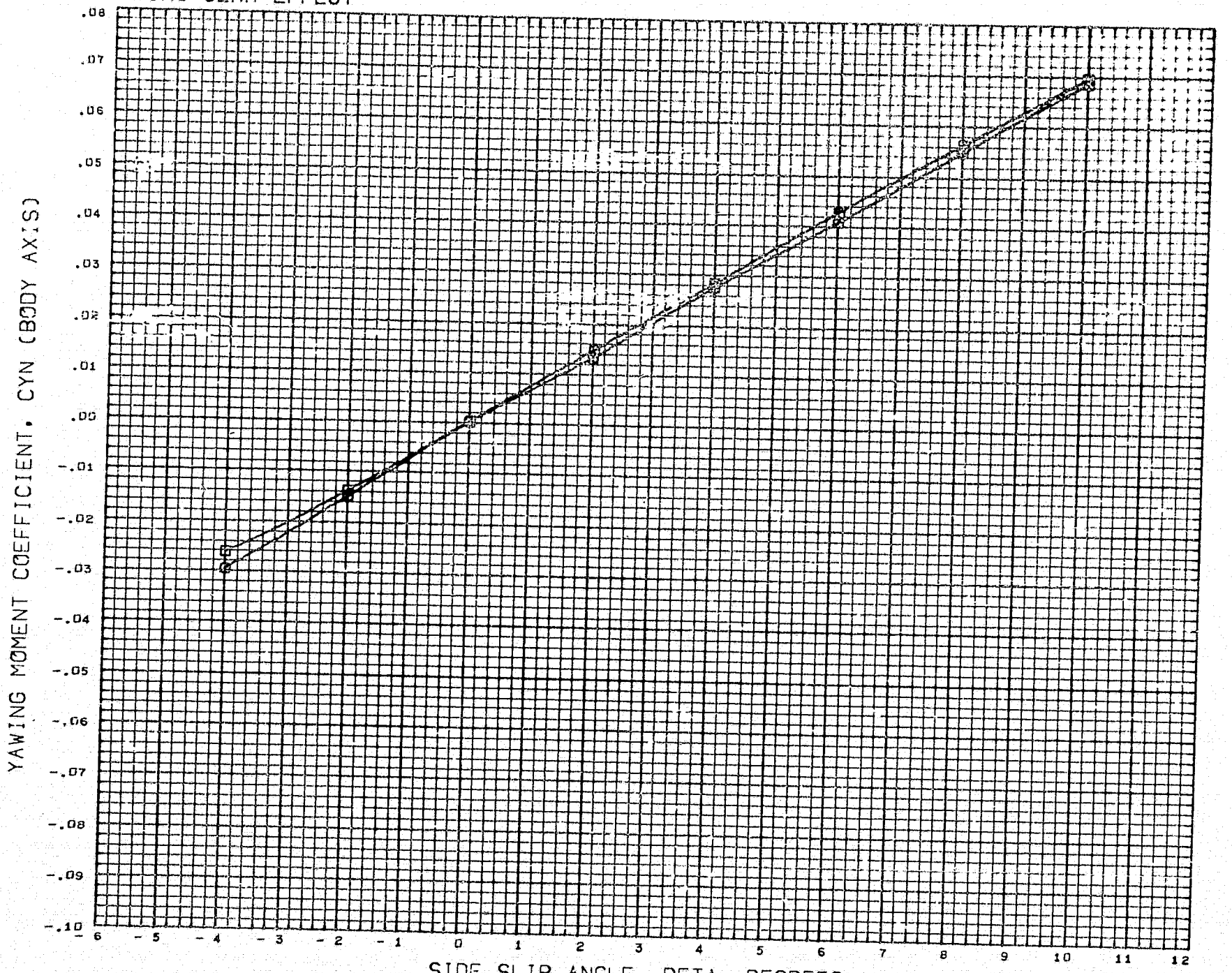
PARAMETRIC VALUES

ALPHA	0.000	HTAIL	- 5.000
FLAP	45.000		
ELEVTR	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5150	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BCDA12) ○ 4.0 FC 01 LSWT 237 B4W2V1H1F2

(BCDA22) □ 4.0 FC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

ALPHA 0.000 HTAIL - 5.000

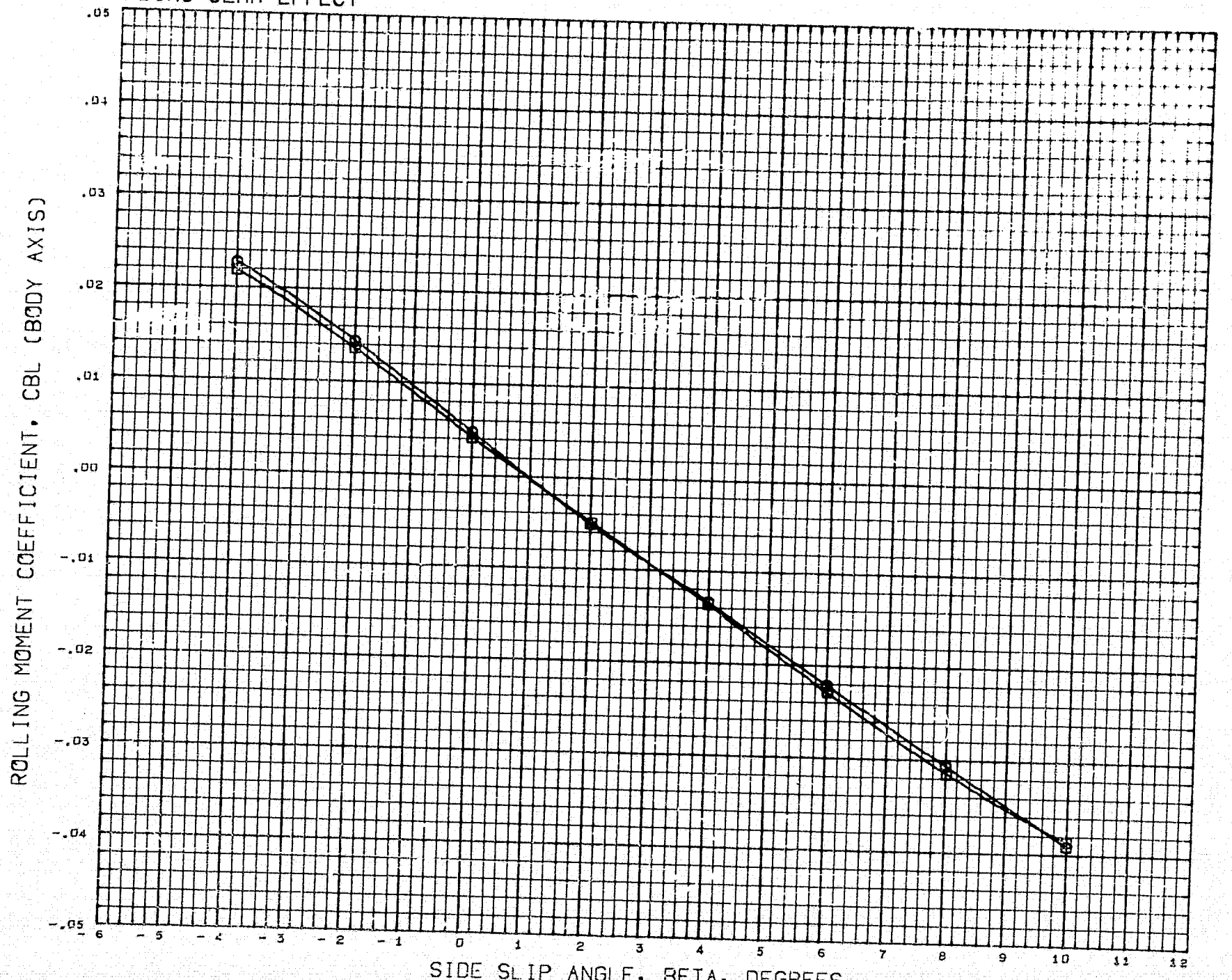
FLAP 45.700

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BCDA12) ○ 4.0 FC 01 LSWT 237 B4W2V1H1F2

(BCDA22) □ 4.0 FC 01 LSWT 237 B4W2V1H1F2G

PARAMETR VALUES

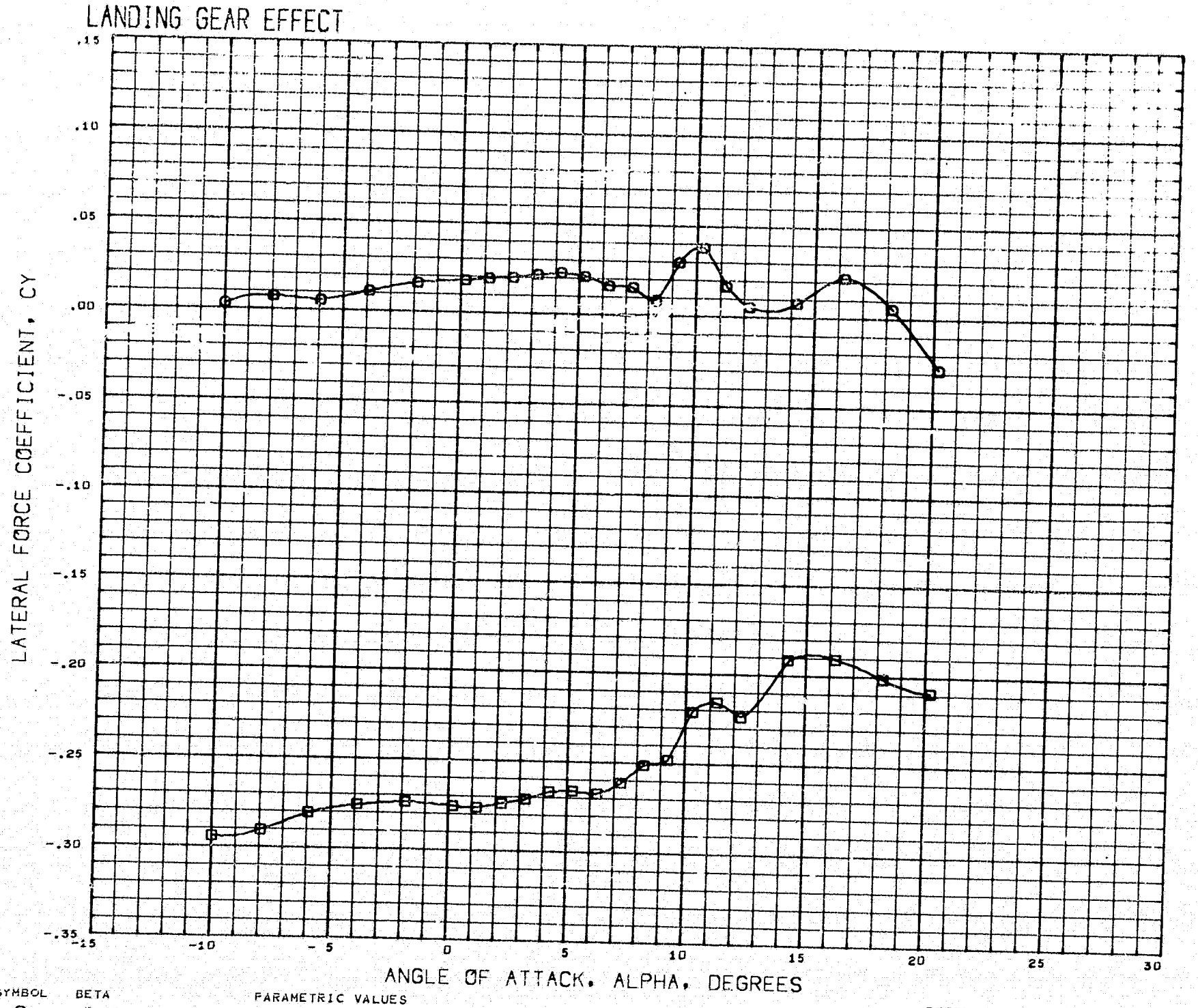
ALPHA 0.000 AIL - 5.000

FLAP 45.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5150	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	45.000		

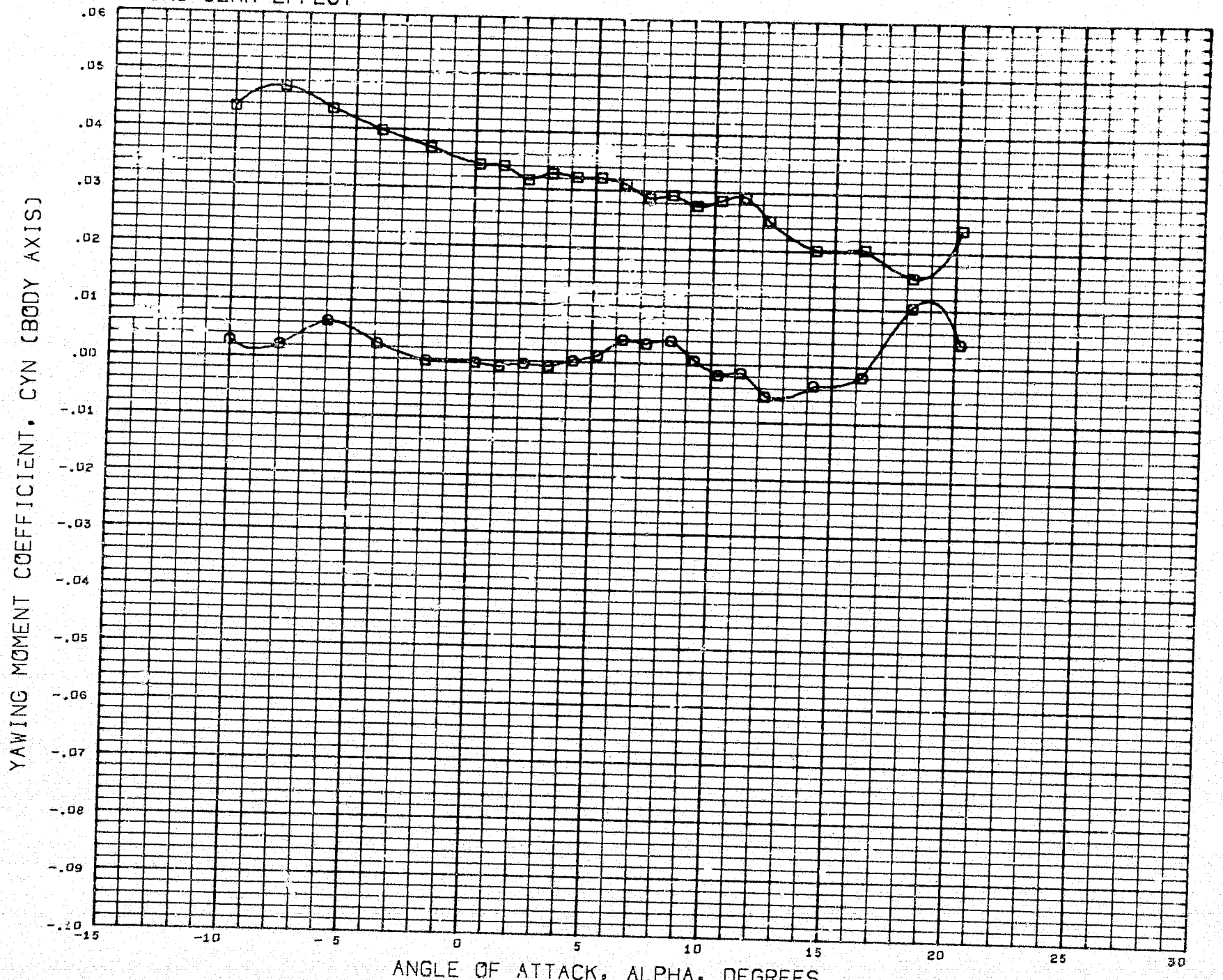
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2

LANDING GEAR EFFECT



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	45.000		

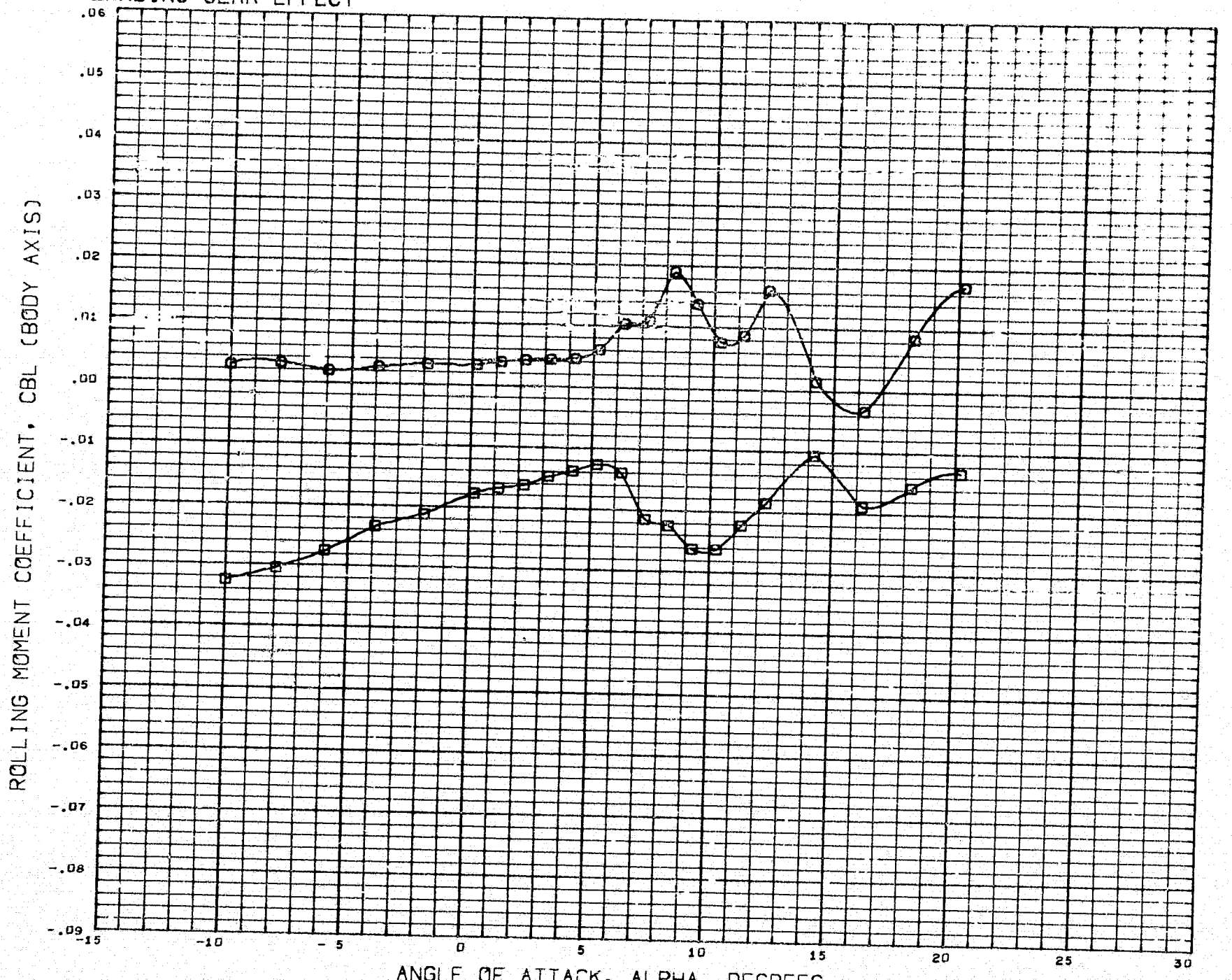
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4W2V1H1F2

LANDING GEAR EFFECT



SYMBOL	BETA	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	HTAIL	-5.000
□	5.000	FLAP	45.000		

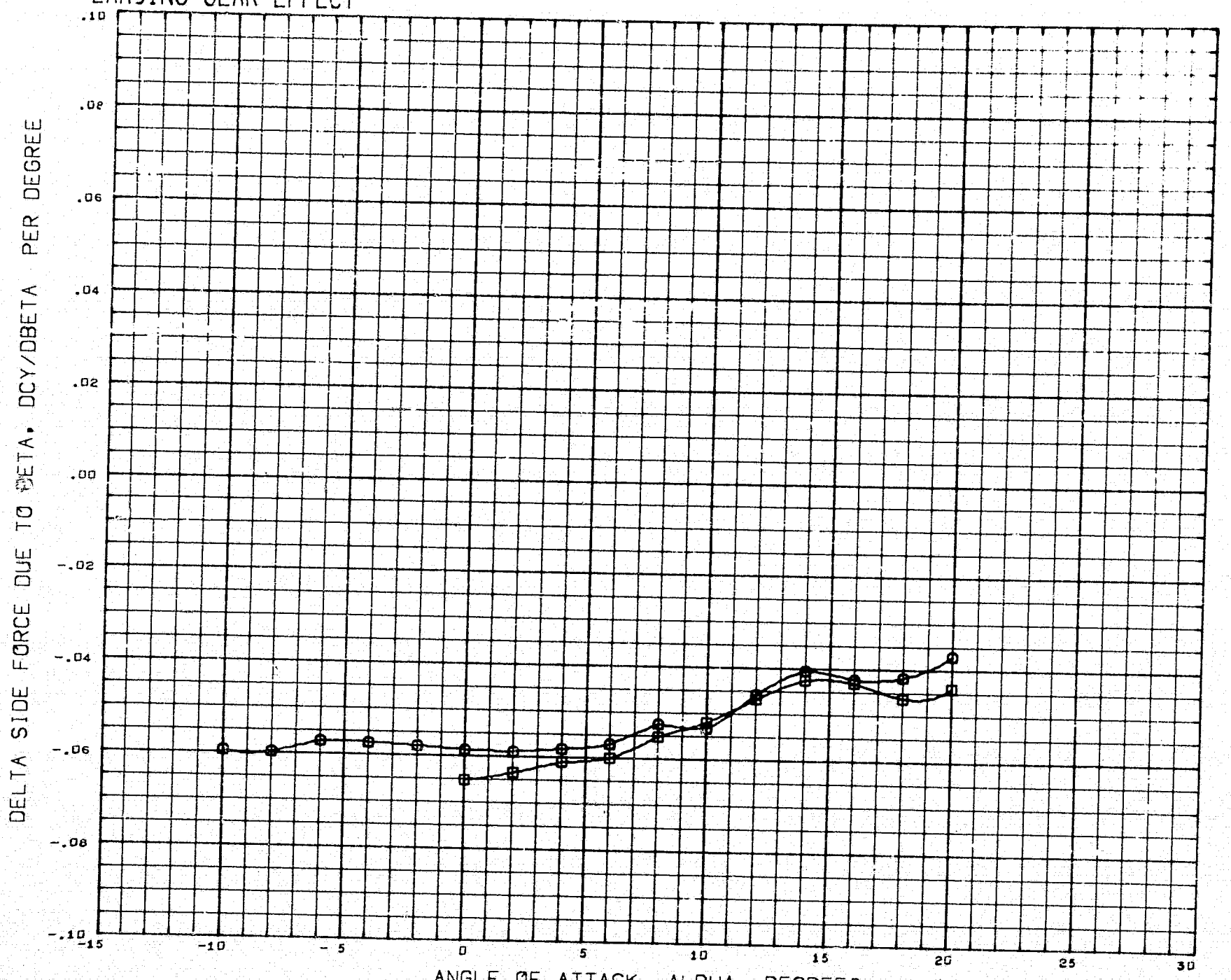
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSW1 237 B4W2V1H1F2

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA10)	O	4.0 PC 01 LSWT 237 B4W2V1H1F2
(FCDA20)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

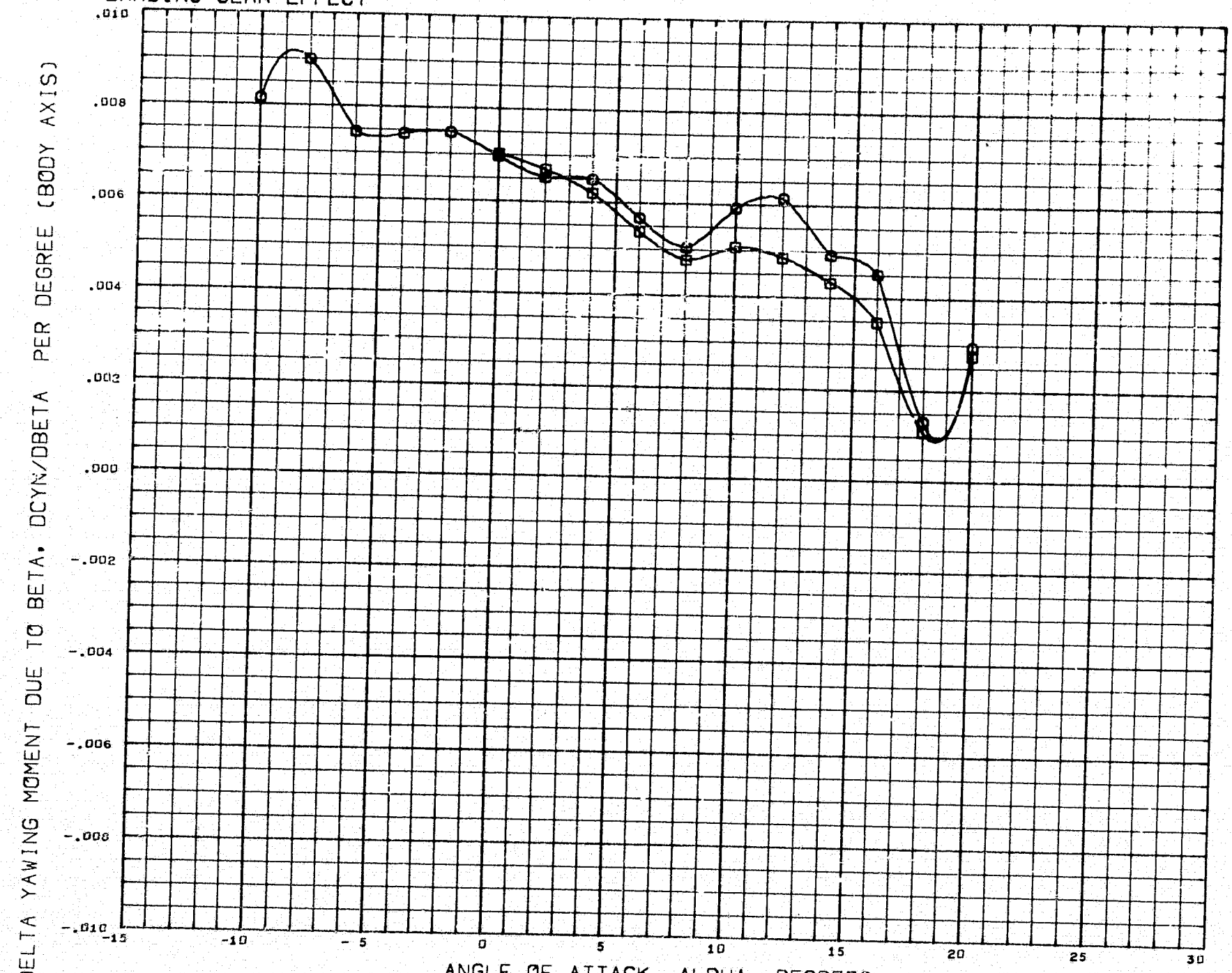
BETA	0.000	HTAIL	- 5.000
FLAP	45.000		

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA1D)	O	4.0 PC 01 LSWT 237 B4W2V1H1F2
(FCDA2D)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

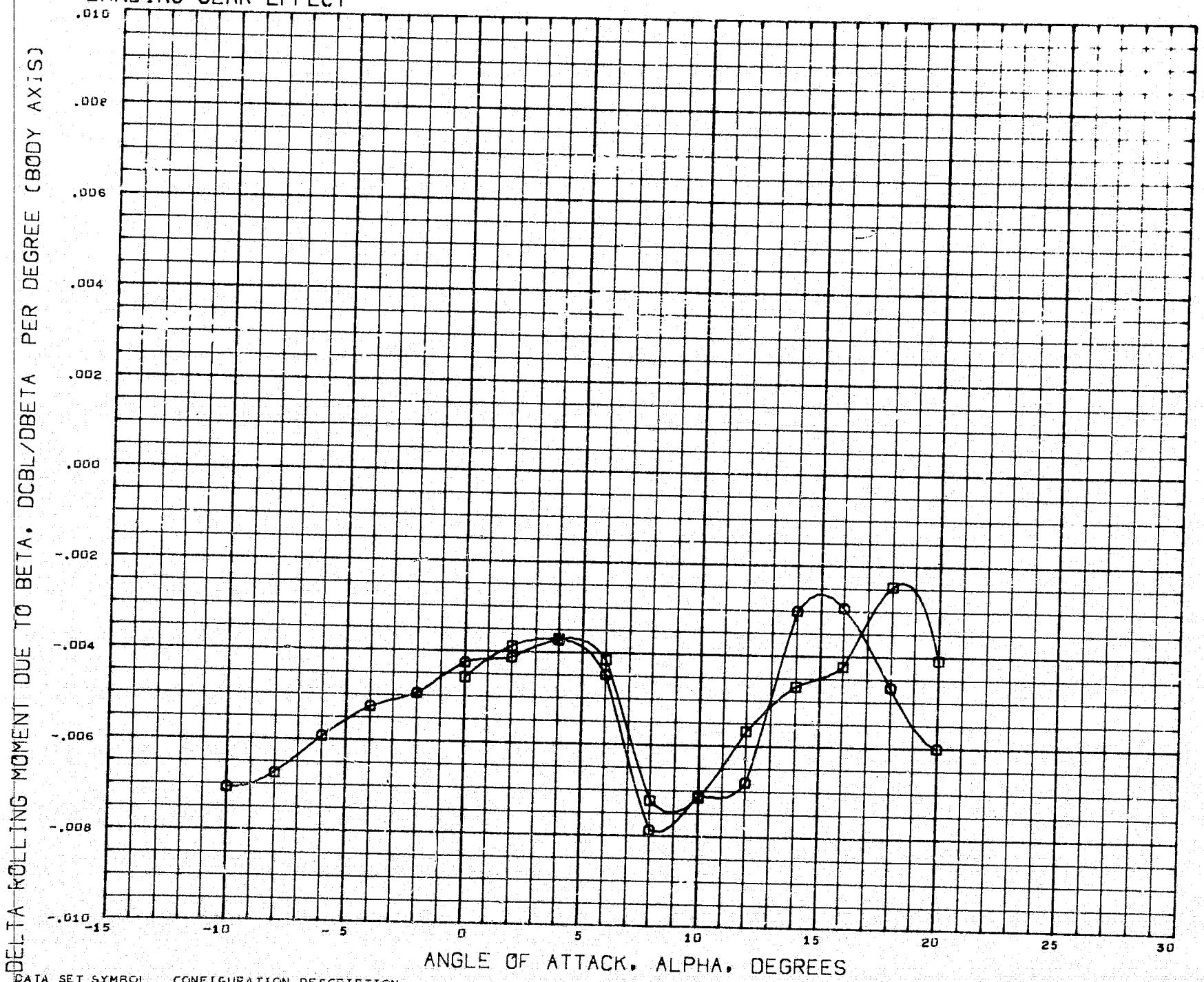
BETA	0.000	HTAIL	-	5.000
FLAP	45.000			

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.0400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

LANDING GEAR EFFECT



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(FCDA1D) ○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(FCDA2D) □	4.0 FC 01 LSWT 237 B4W2V1H1F2G

PARAMETRIC VALUES

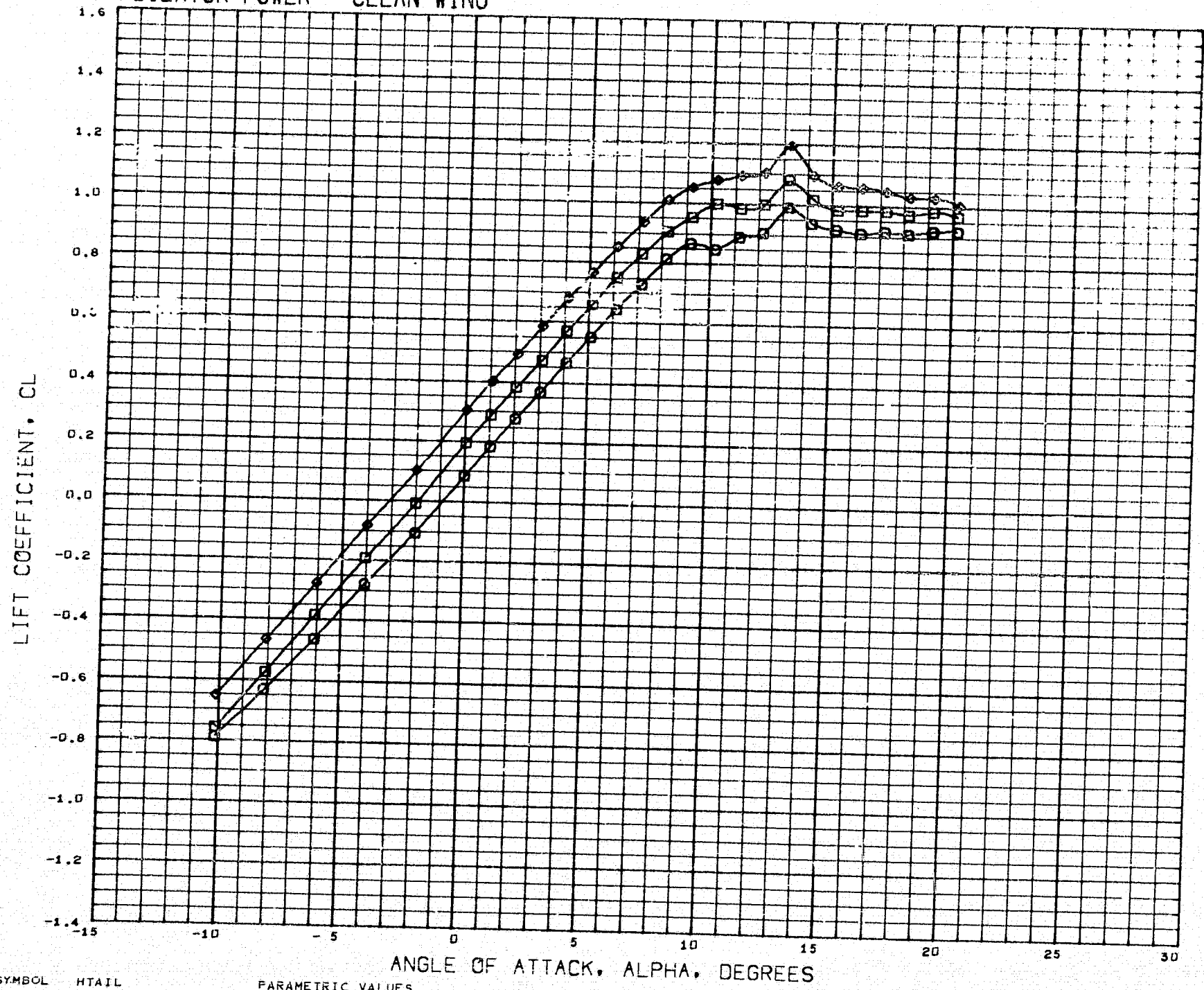
BETA	0.000	HTAIL	-	5.000
FLAP	45.000			

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.770.	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

STABILATOR POWER - CLEAN WING



SYMBOL	HTAIL		PARAMETRIC VALUES
○	-10.000	BETA	0.000
□	-5.000		
◇	0.000		

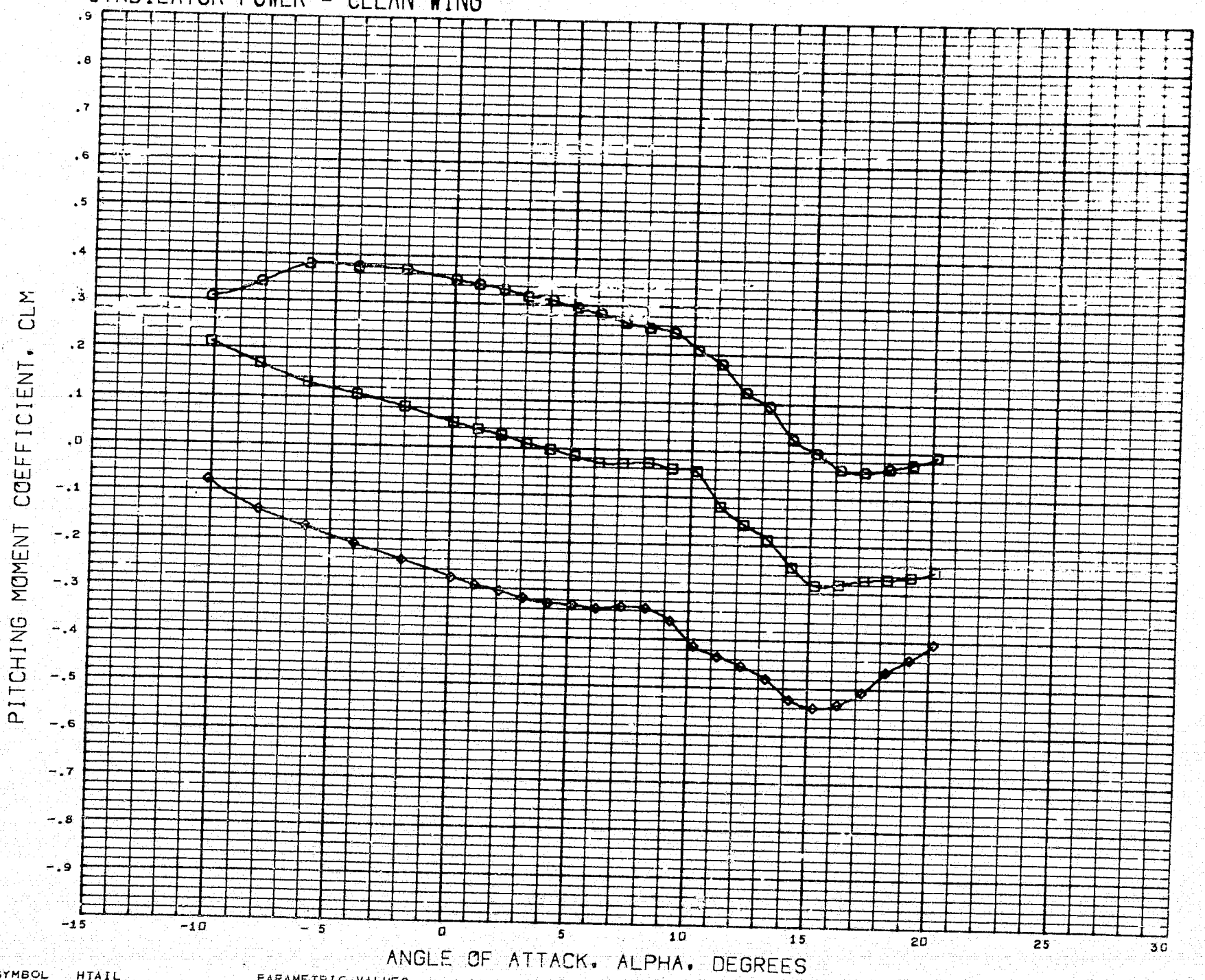
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

4.0 PC 01 LSWT 237 B4W2V1H1

STABILATOR POWER - CLEAN WING



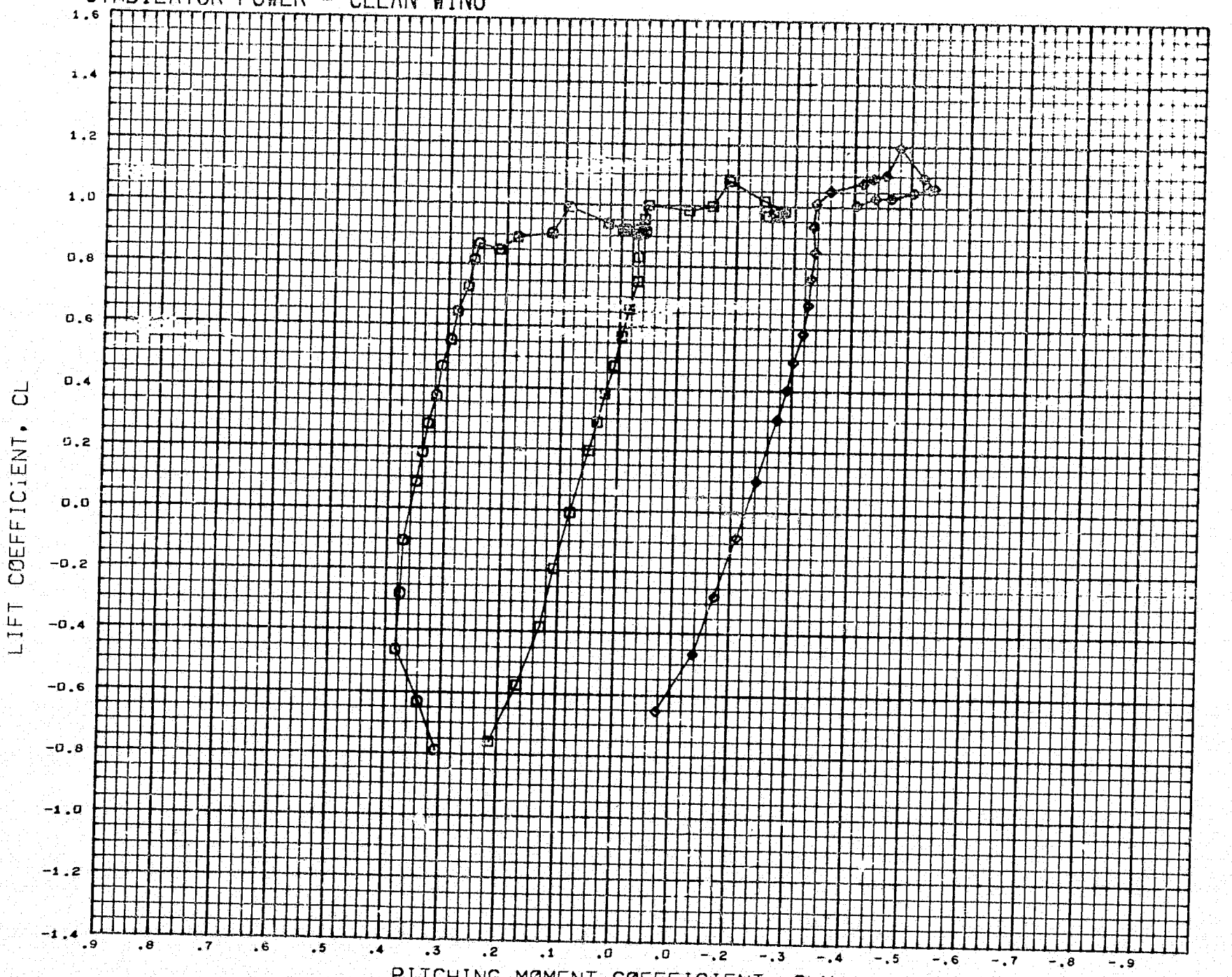
SYMBOL	HTAIL	PARAMETRIC VALUES	
○ □	-10.000	BETA	0.000
○ □	-5.000		
◇	0.000		

DATA HIST. CODE V#E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3870	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

STABILATOR POWER - CLEAN WING



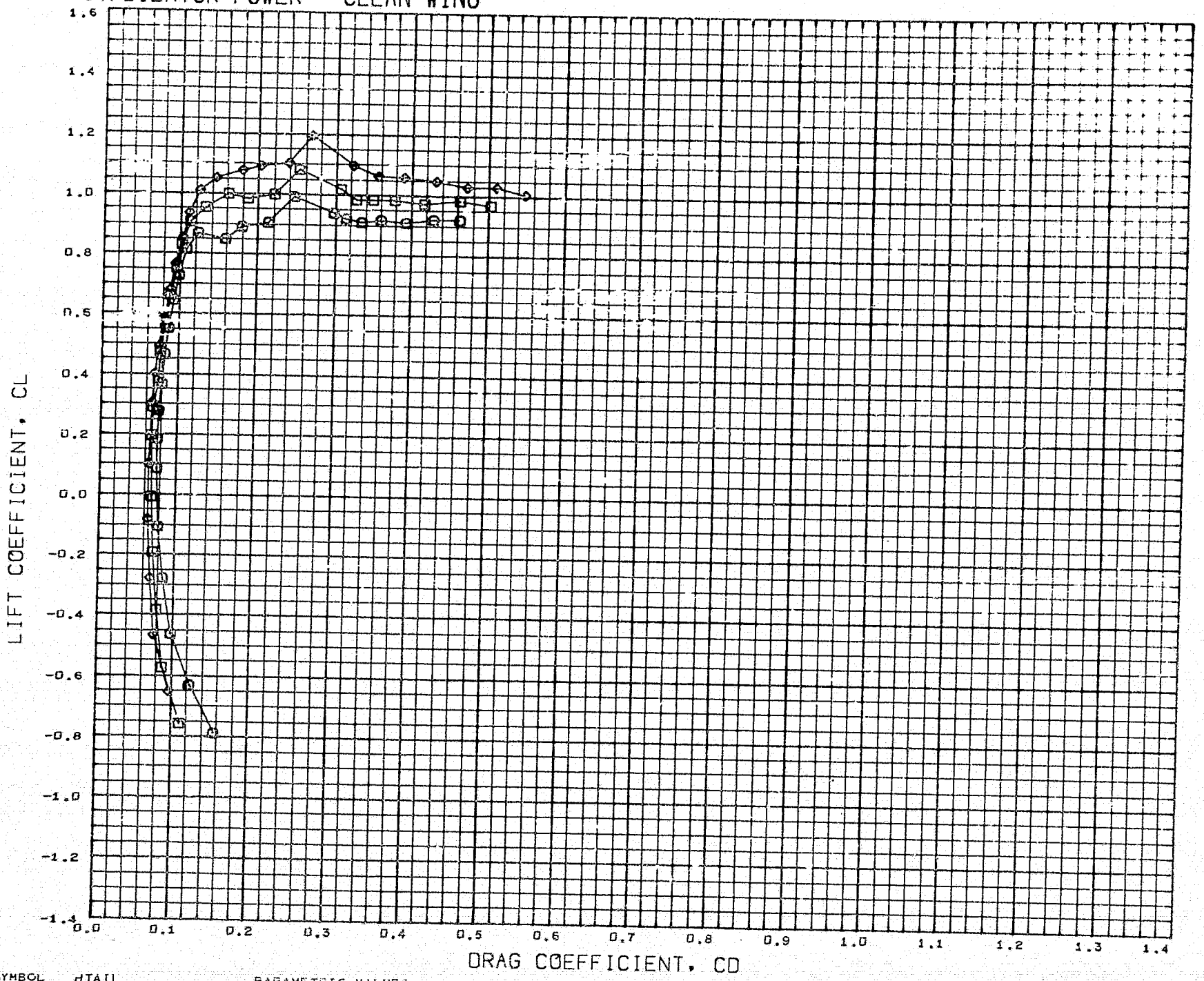
SYMBOL	HTAIL		PARAMETRIC VALUES
○	- 10.000	BETA	0.000
□	- 5.000		
◇	0.000		

DATA HIST. CODE V*E

REFERENCE INFORMATION		
REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1

STABILATOR POWER - CLEAN WING



SYMBOL	HTAIL		PARAMETRIC VALUES
○	- 10.000	BETA	0.000
□	- 5.000		
◇	0.000		

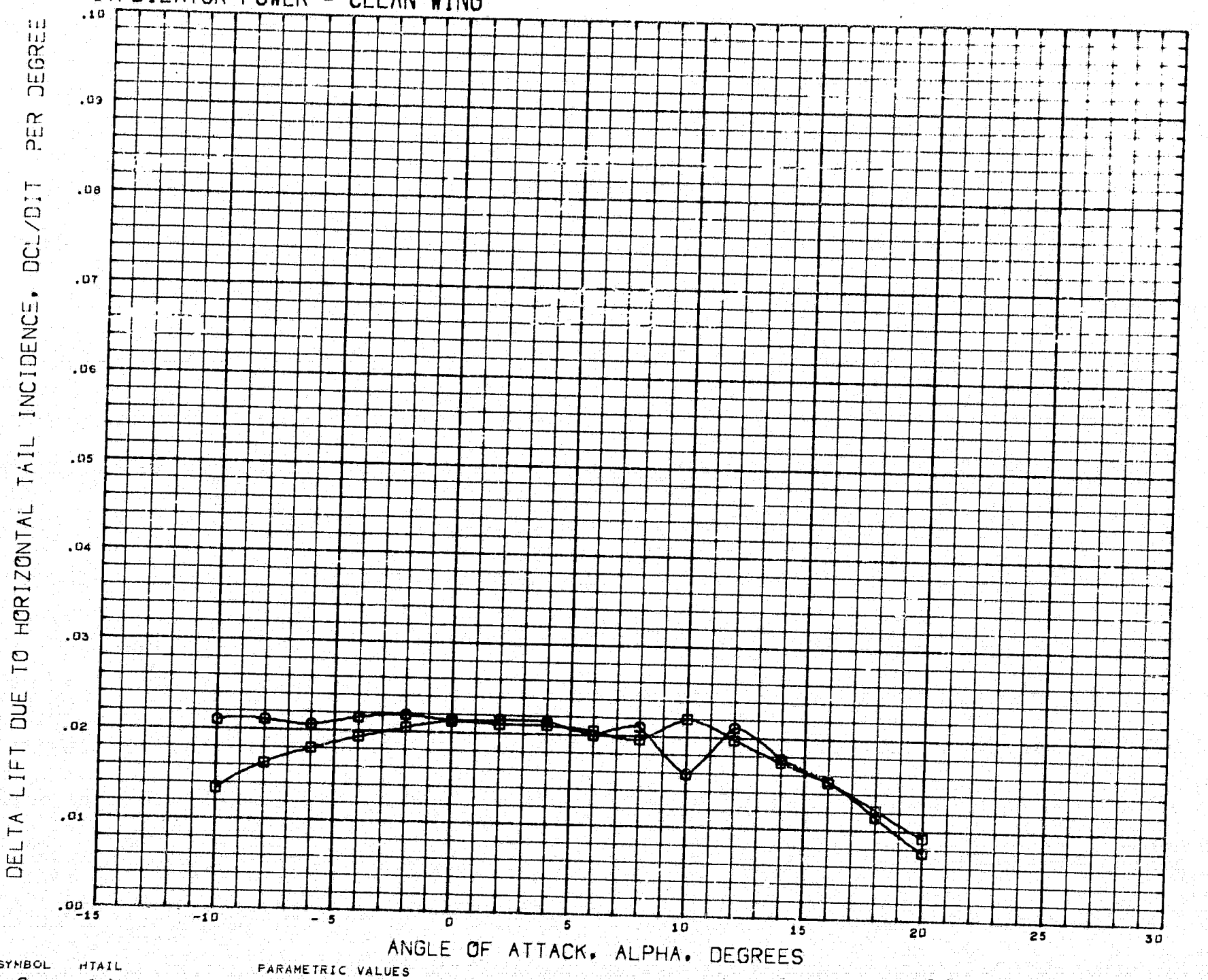
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

4.0 PC 01 LSWT 237 B4W2V1H1

STABILATOR POWER - CLEAN WING



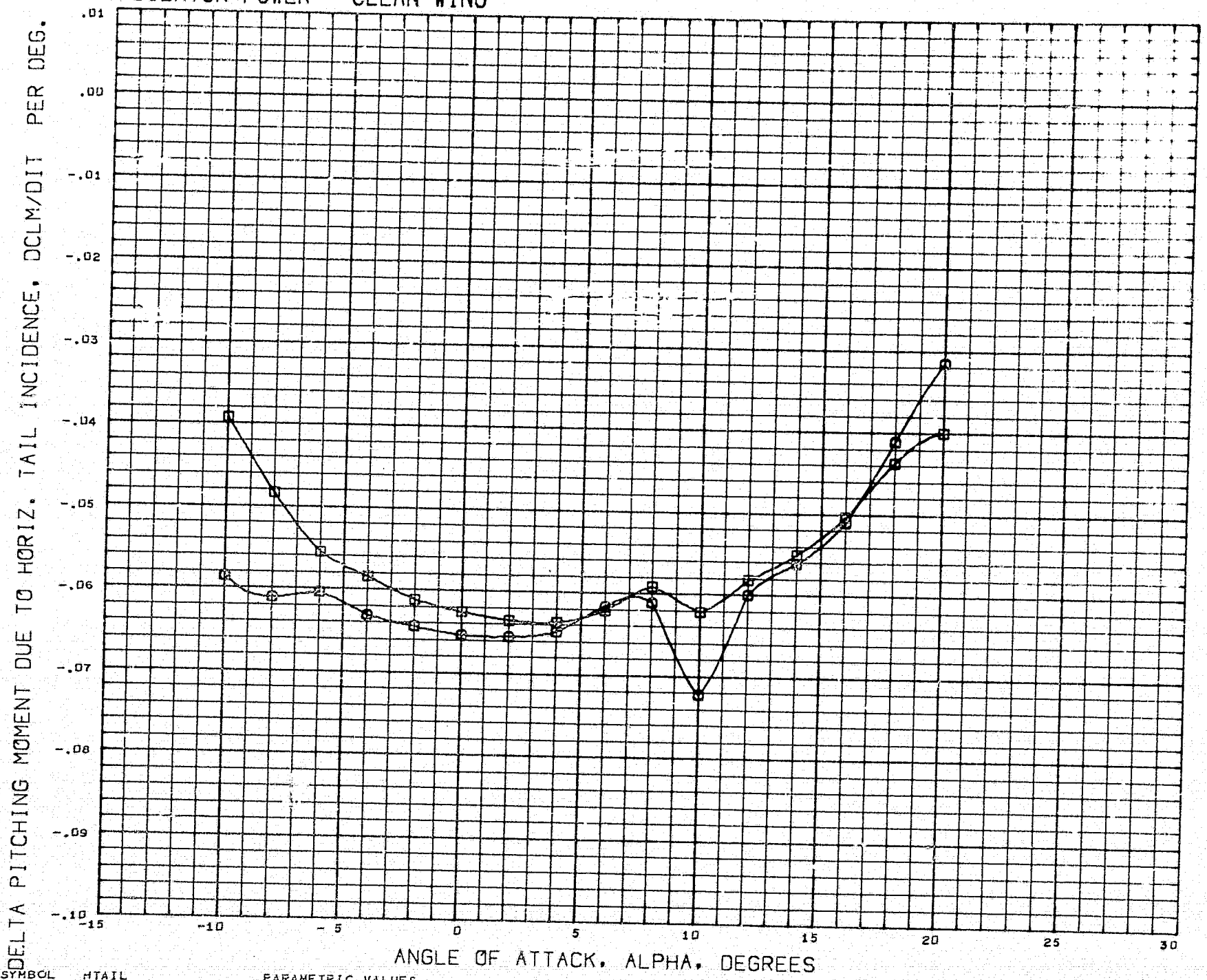
SYMBOL	HTAIL	PARAMETRIC VALUES			
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000				

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3200	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE *P

STABILATOR POWER - CLEAN WING



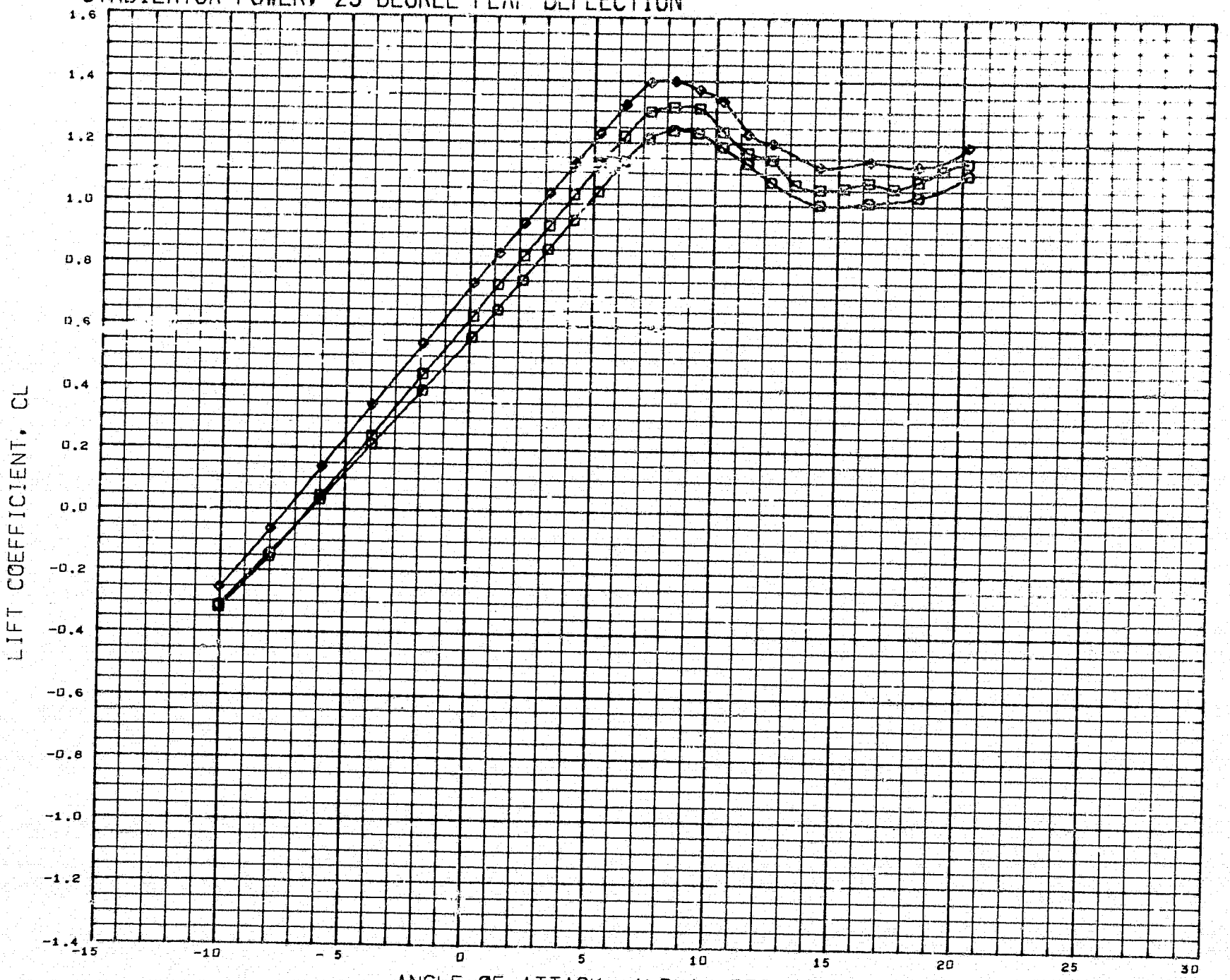
SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000				

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3200	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE *F

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
○	-10.000	ELEVTR	0.000	BETA	0.000
□	-5.000	FLAP	25.000	RUDDER	0.000
◇	0.000				

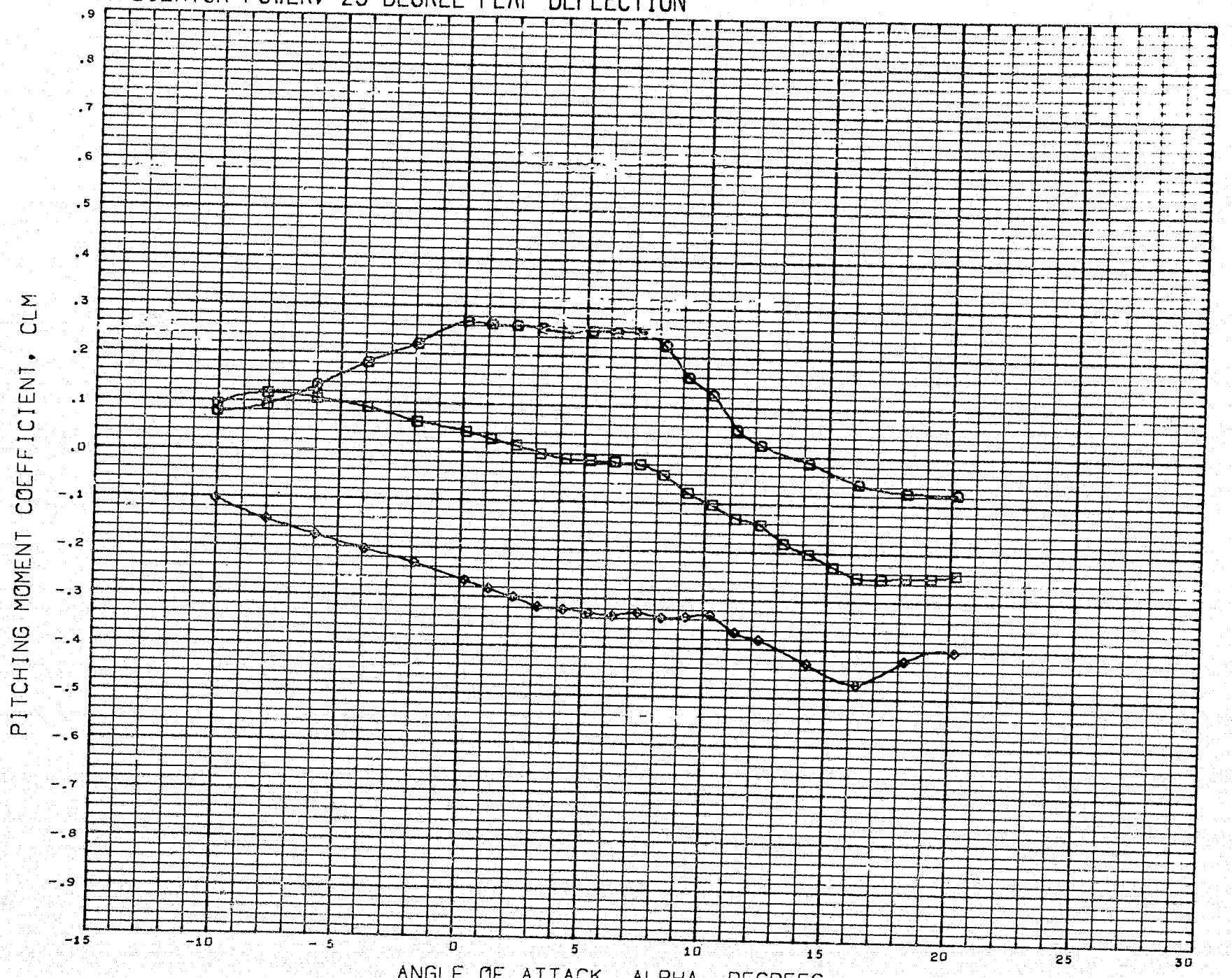
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G (BCD903) 29 APR 71 PAGE 88

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
O	-10.000	ELEVTR	0.000	BETA	0.000
□	-5.000	FLAP	25.000	RUDDER	0.000
◇	0.000				

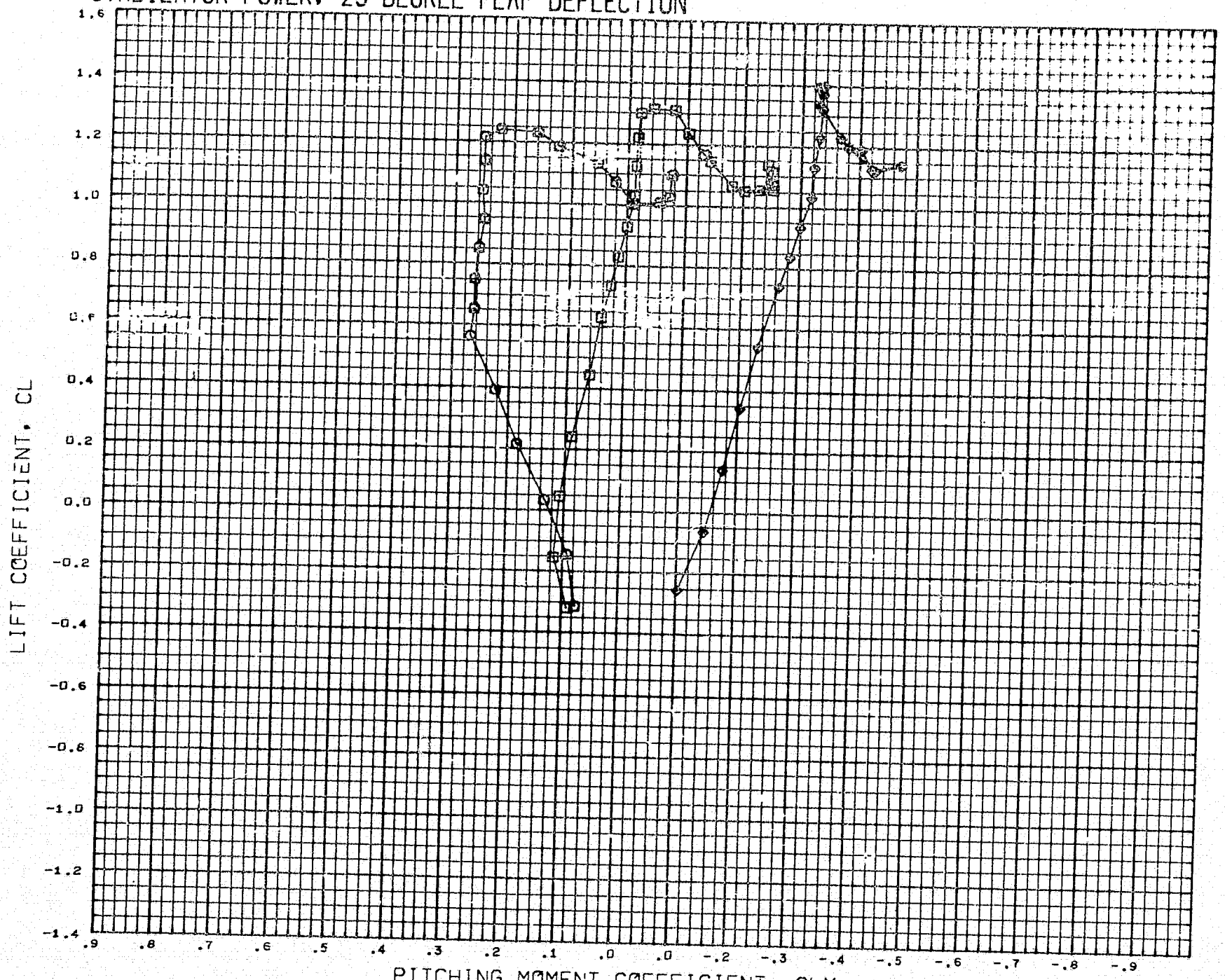
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9407	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
○	- 10.000	ELEVTR	0.000	BETA	0.000
□	- 5.000	FLAP	25.000	RUDDER	0.000
◇	0.000				

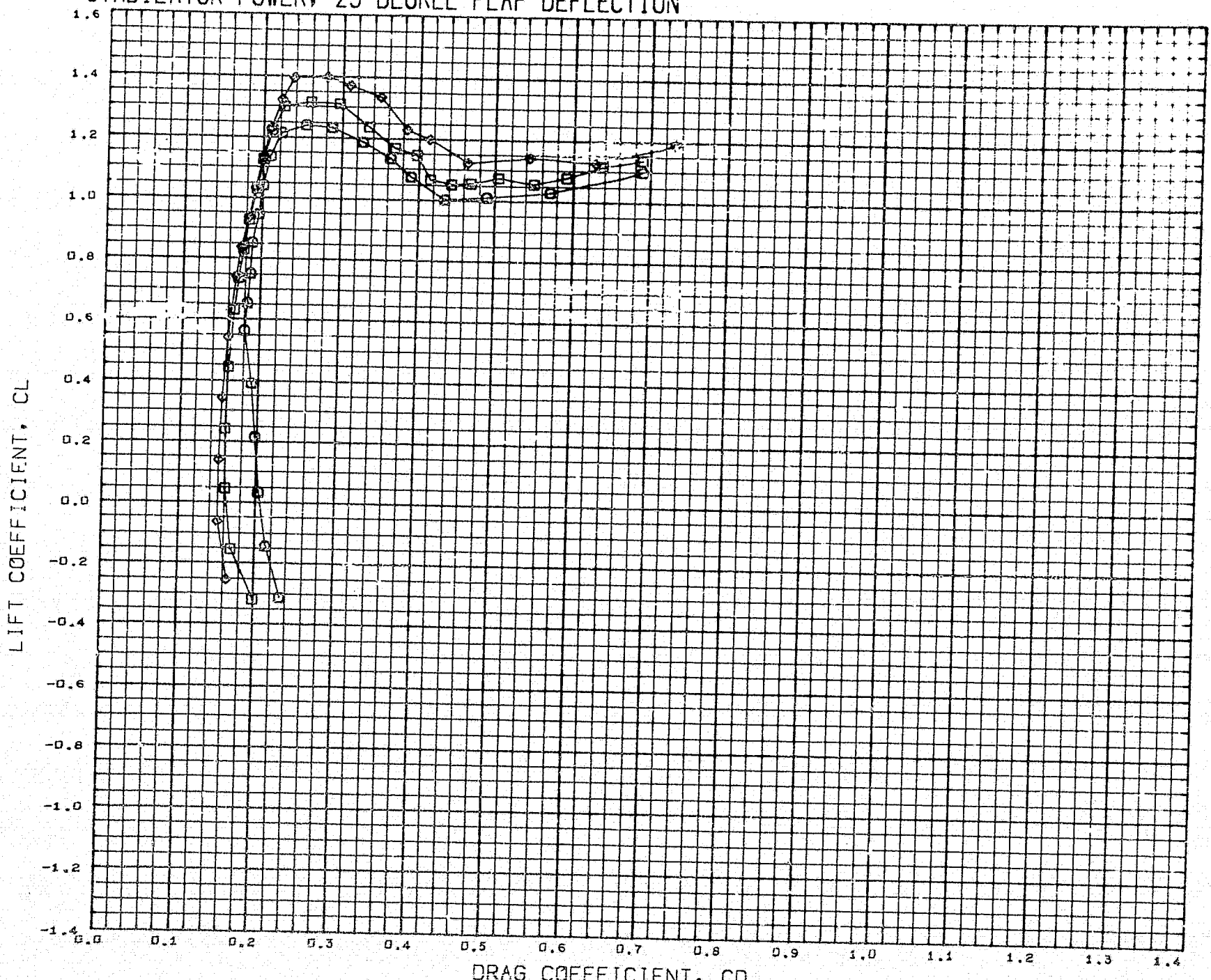
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	FERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 10.000	ELEVTR	0.000	BETA	0.000
□	- 5.000	FLAP	25.000	RUDDER	0.000
◇	0.000				

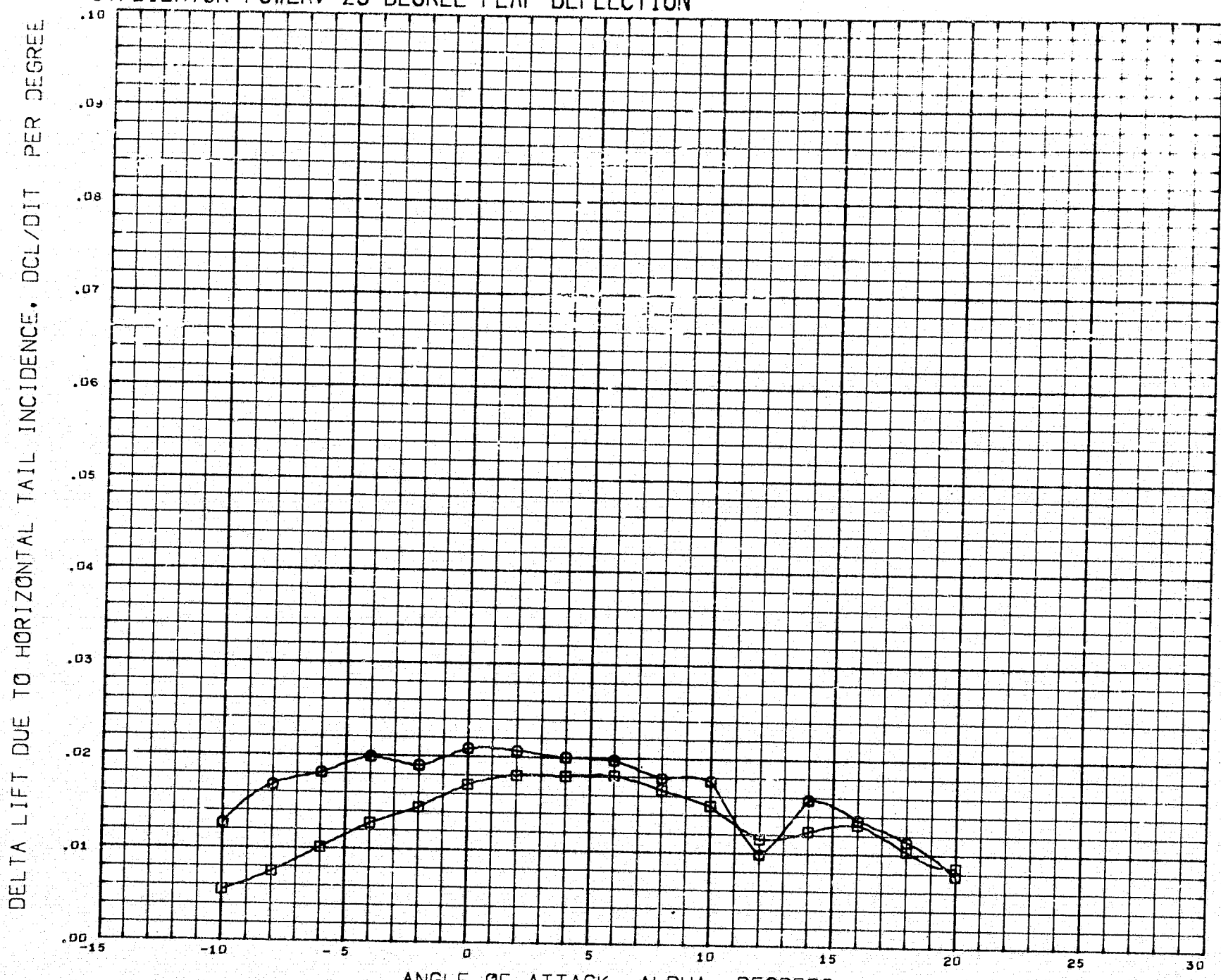
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5130	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G (BCD903) 29 APR 71 PAGE 91

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



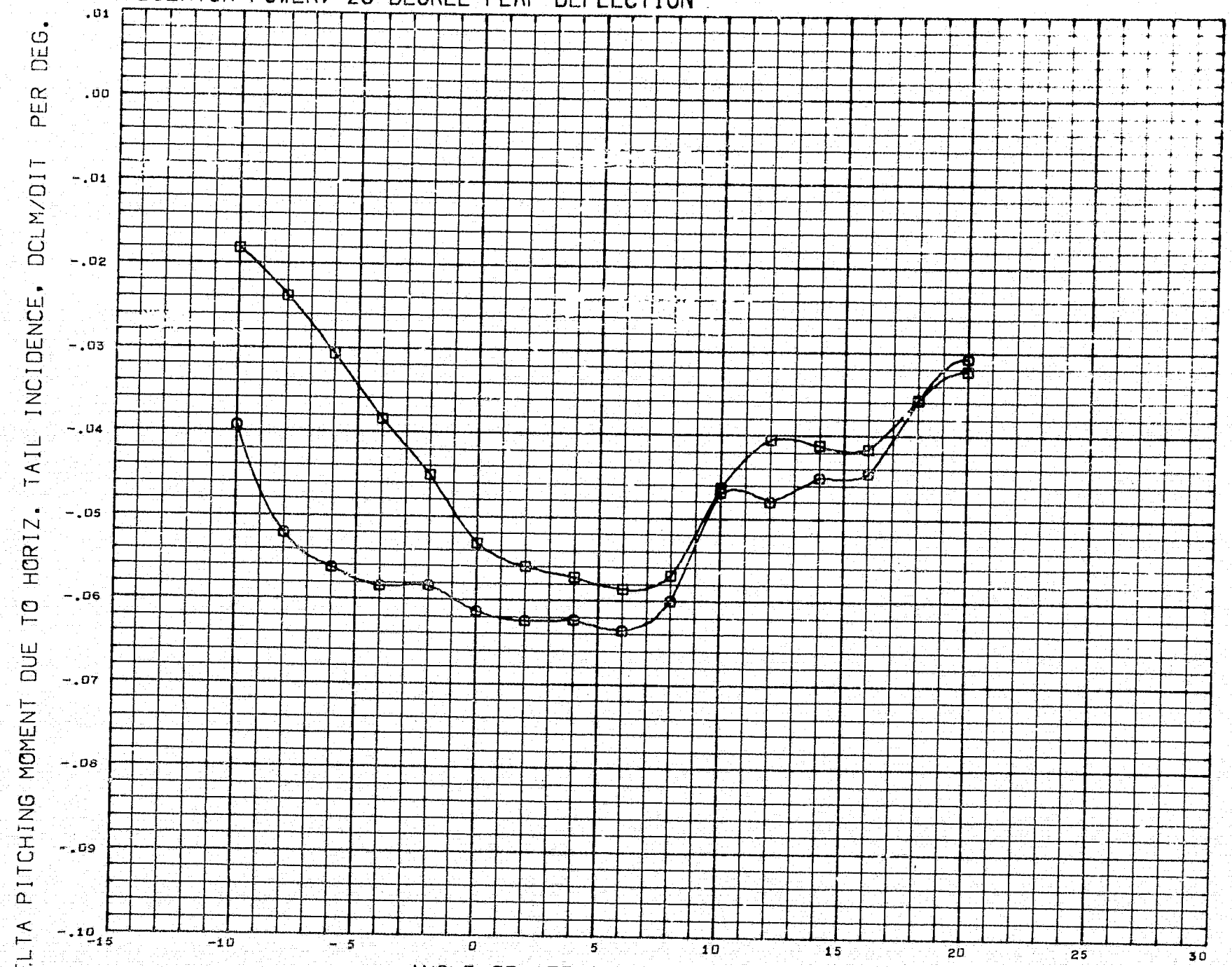
SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000	FLAP	25.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE #F

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION



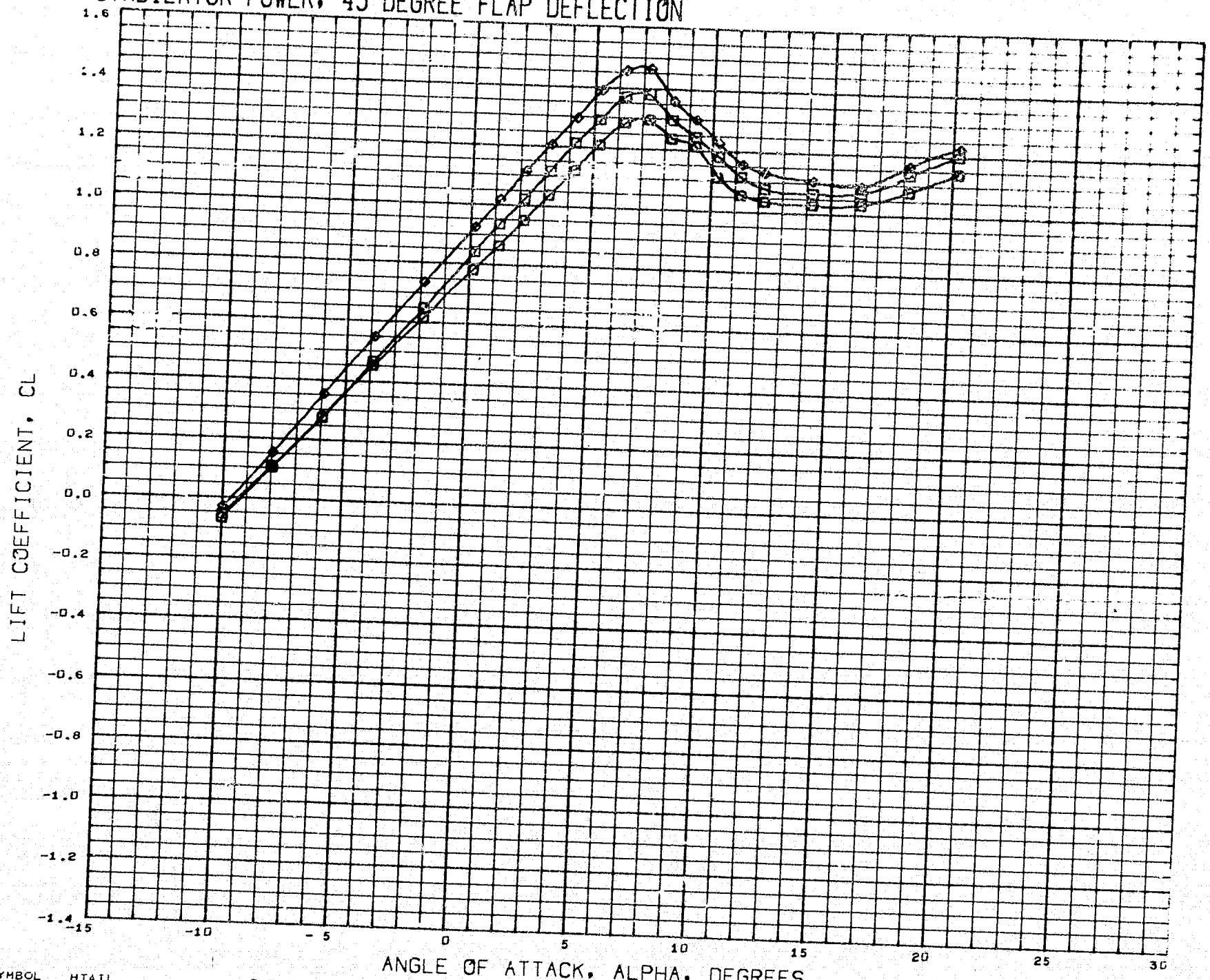
SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000	FLAP	25.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE *P

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
○	-10.000	ELEVTR	0.000	BETA	0.000
□	-5.000	FLAP	45.000	RUDDER	0.000
◇	0.000				

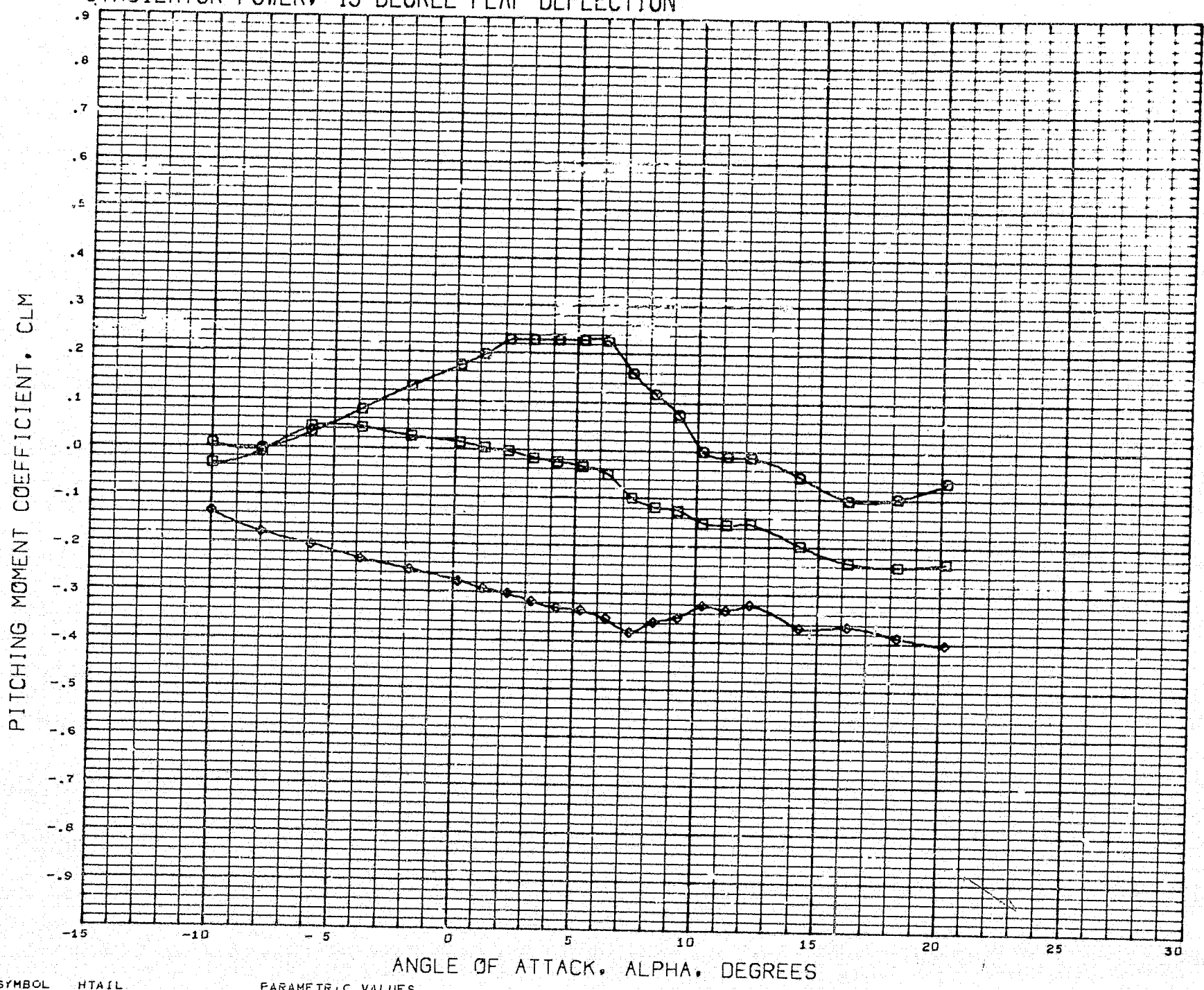
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION



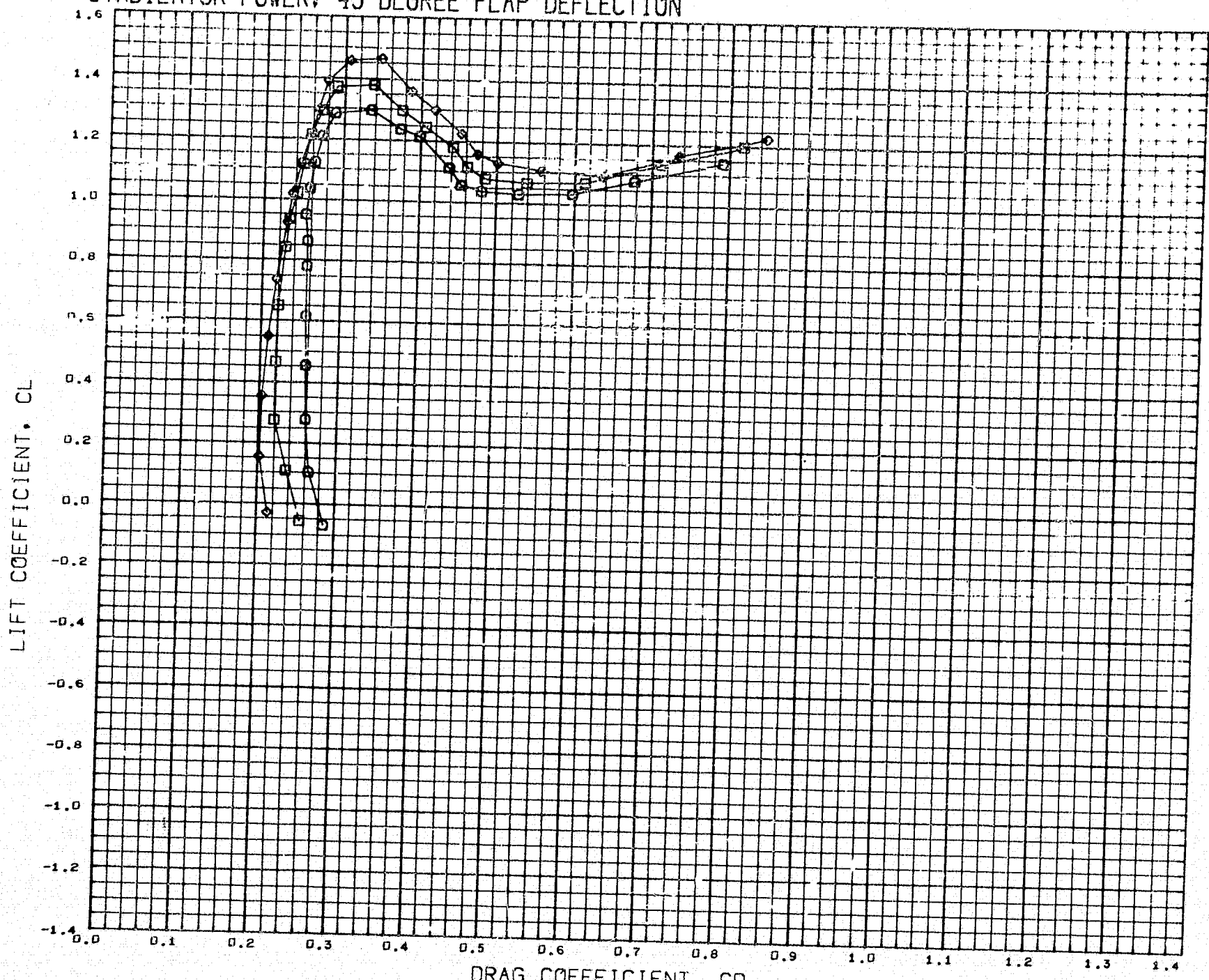
SYMBOL	HTAIL	PARAMETRIC VALUES			
○	-10.000	ELEVTR	0.000	BETA	0.000
□	-5.000	FLAP	45.000	RUDDER	0.000
◇	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFP	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	HTAIL		PARAMETRIC VALUES		
○	-10.000	ELEVTR	0.000	BETA	0.000
□	-5.000	FLAP	45.000	RUDDER	0.000
◇	0.000				

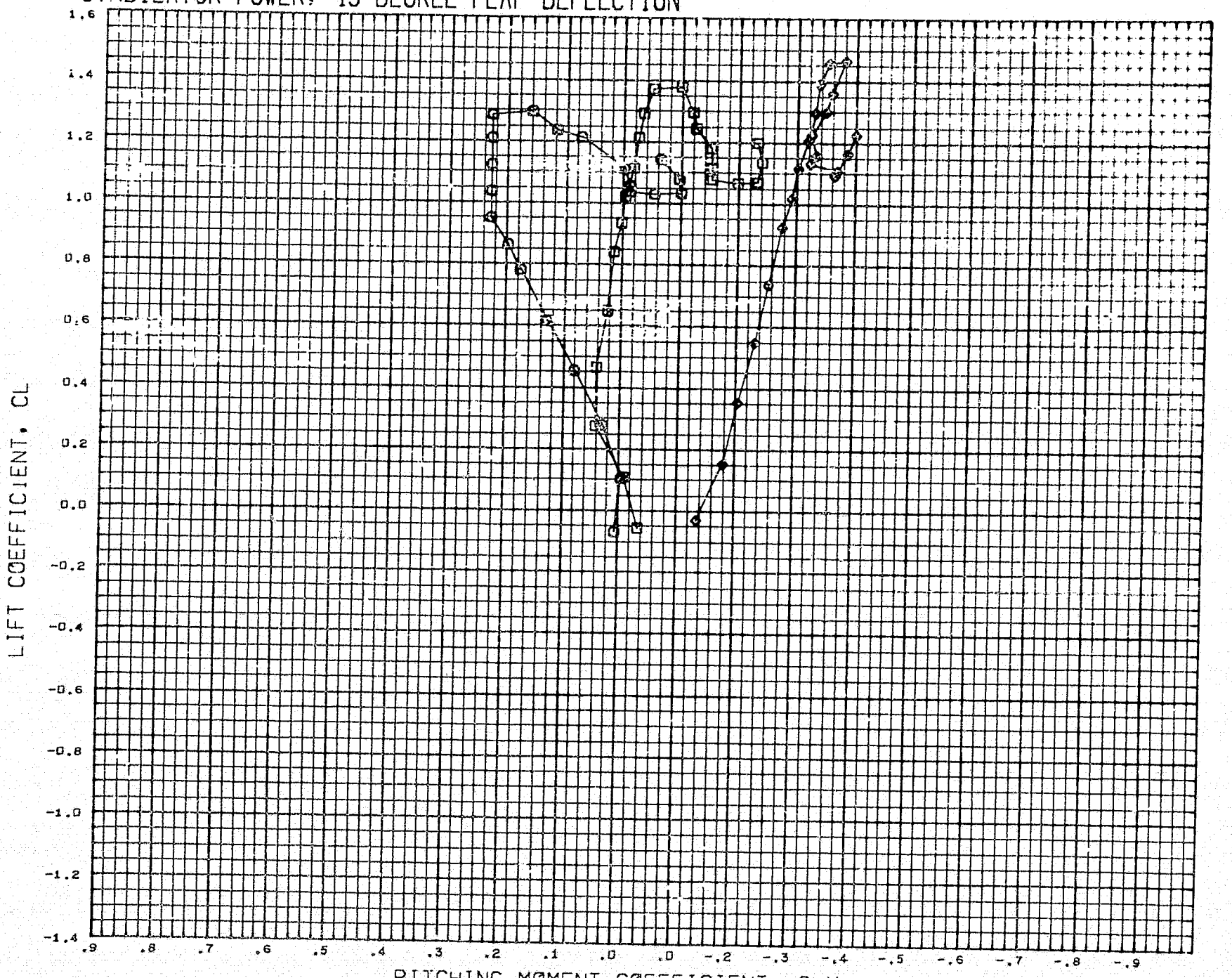
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION



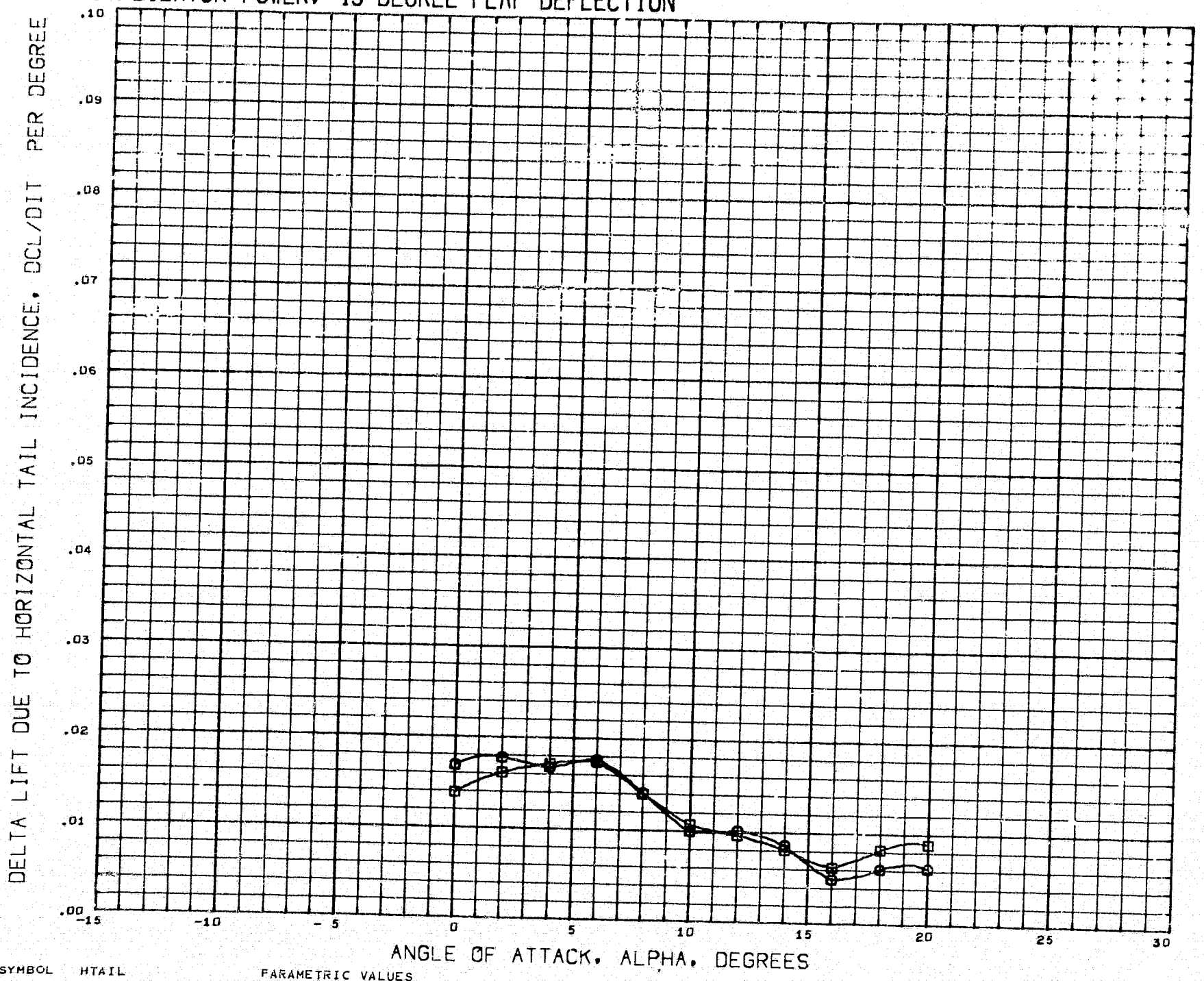
SYMBOL	HTAIL		PARAMETRIC VALUES		
○	- 10.000	ELEVTR	0.000	BETA	0.000
□	- 5.000	FLAP	45.000	RUDDER	0.000
◇	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3400	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION

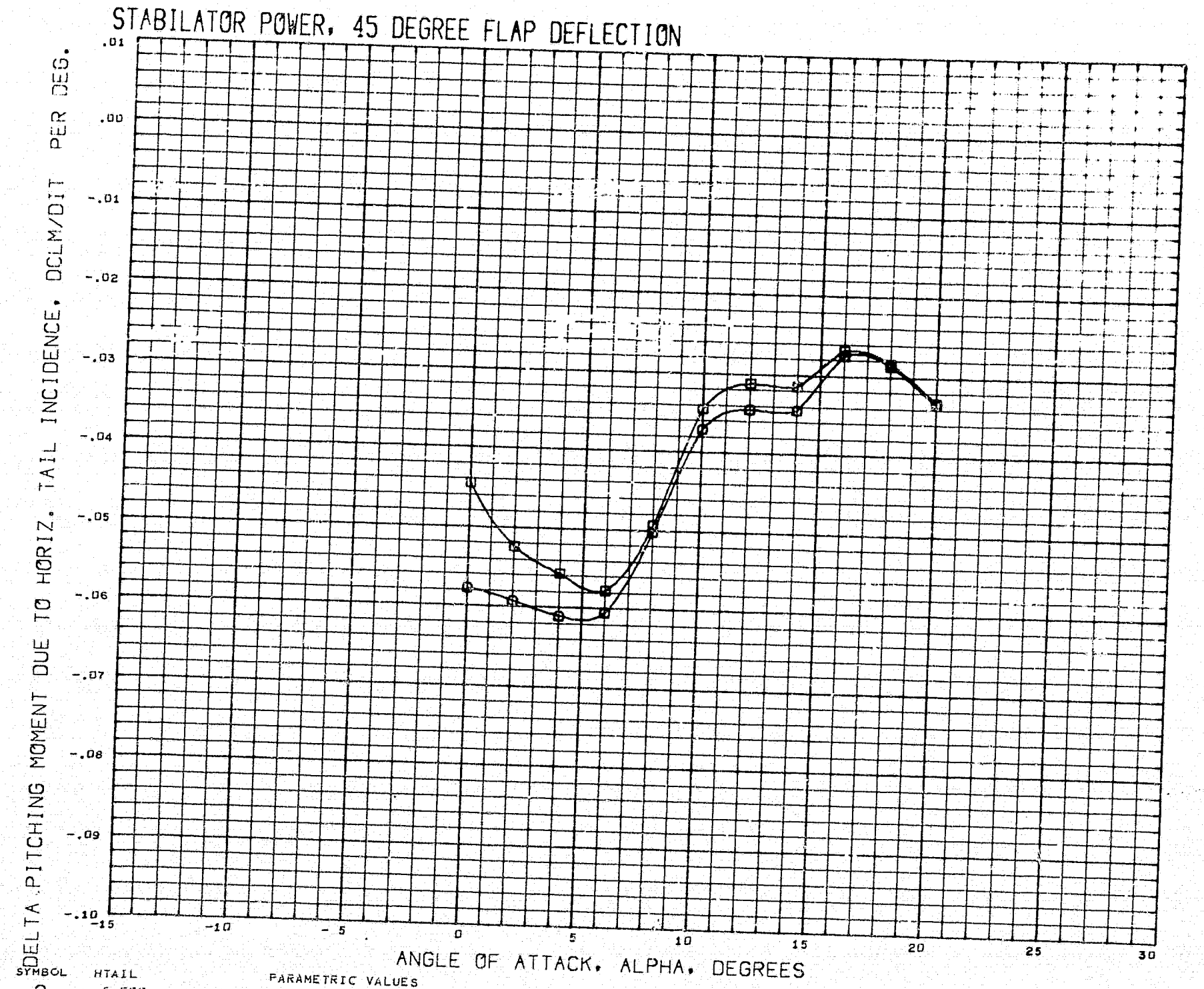


SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000	FLAP	45.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE *F



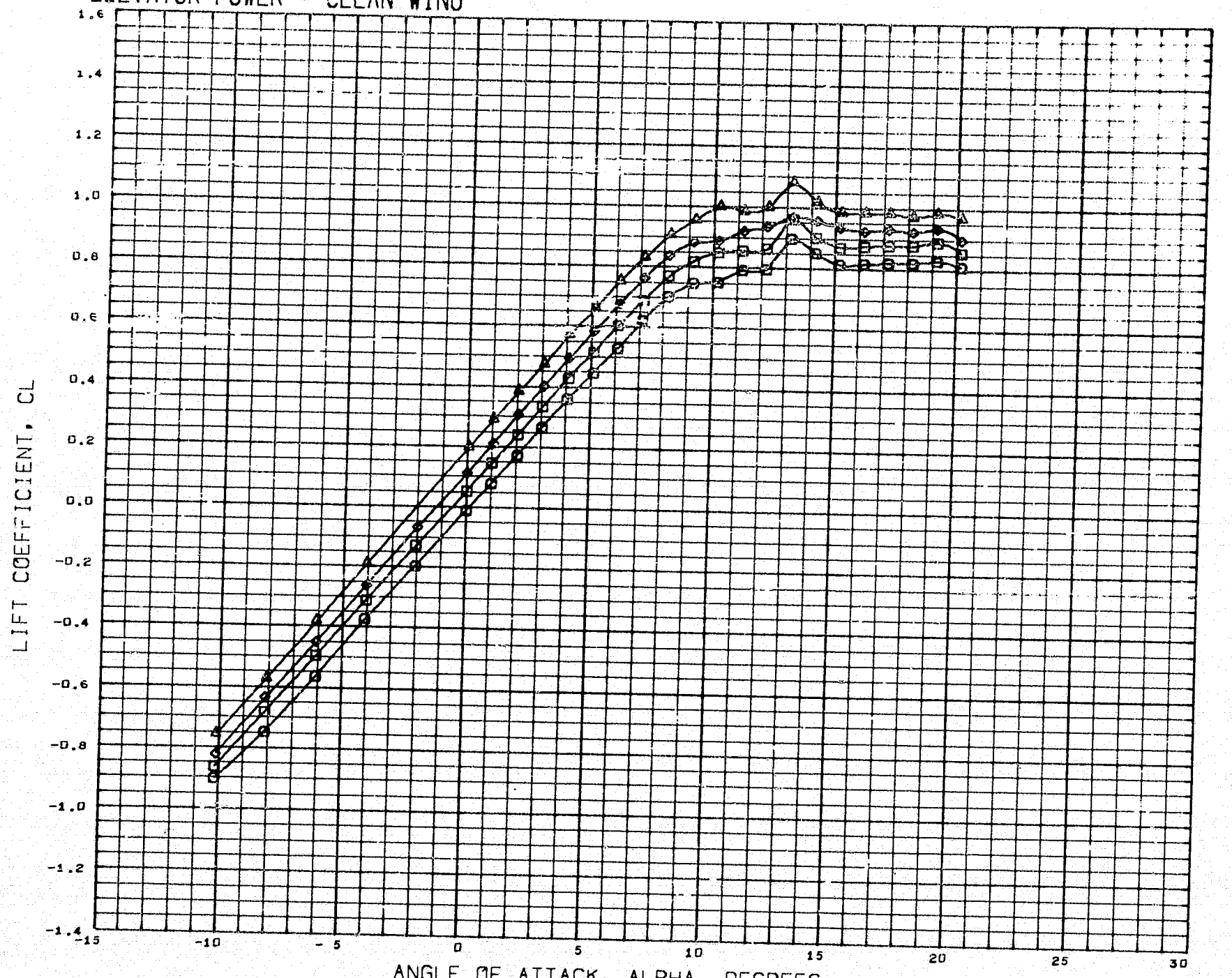
SYMBOL	HTAIL		PARAMETRIC VALUES		
O	- 5.000	ELEVTR	0.000	BETA	0.000
□	- 10.000	FLAP	45.000		

DATA HIST. CODE #P

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER - CLEAN WING



SYMBOL	ELEVTR
○	- 15.000
□	- 10.000
◇	- 5.000
△	0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000
SP-L	0.000	SP-R	0.000

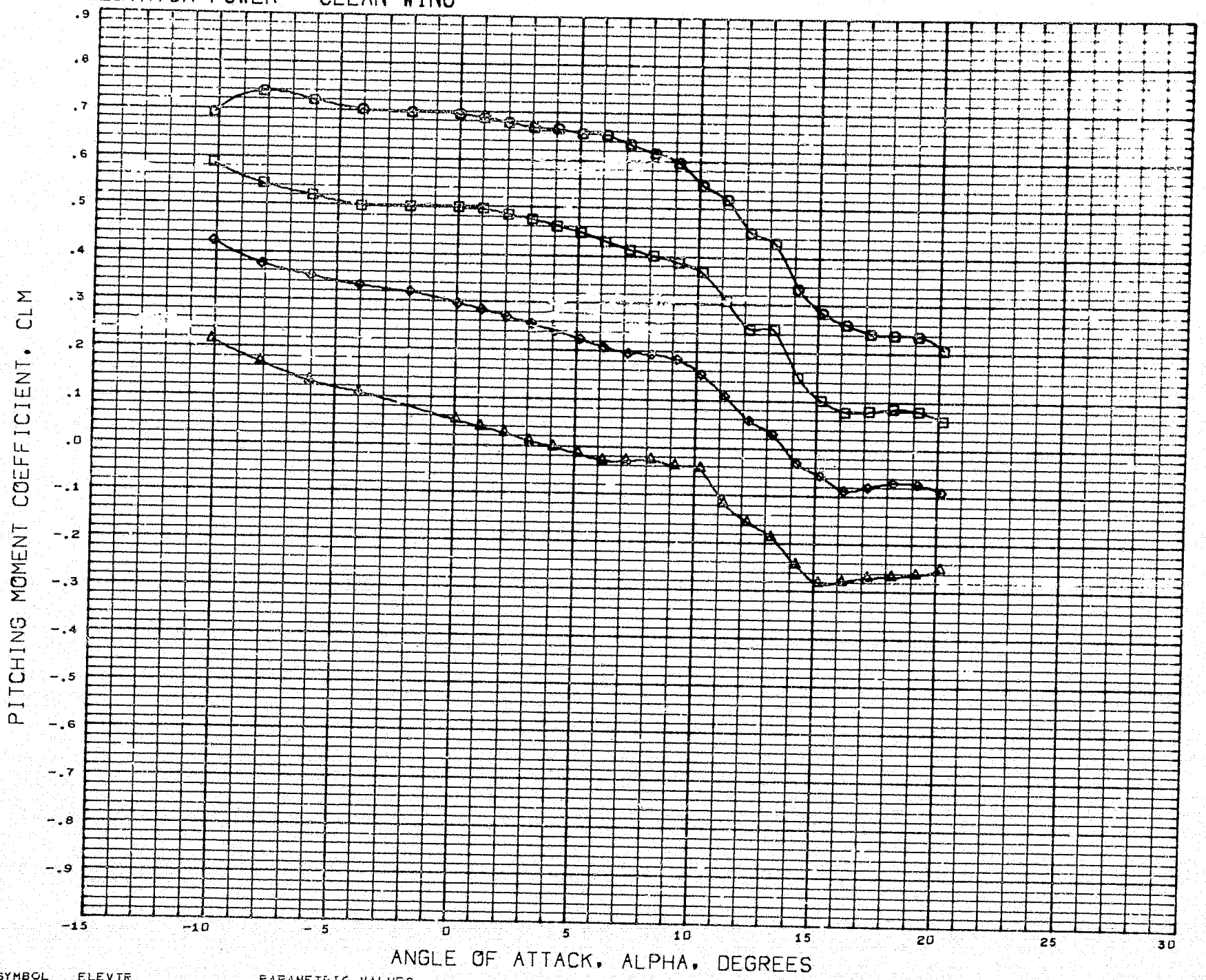
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFD	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4W2V1H1

ELEVATOR POWER - CLEAN WING



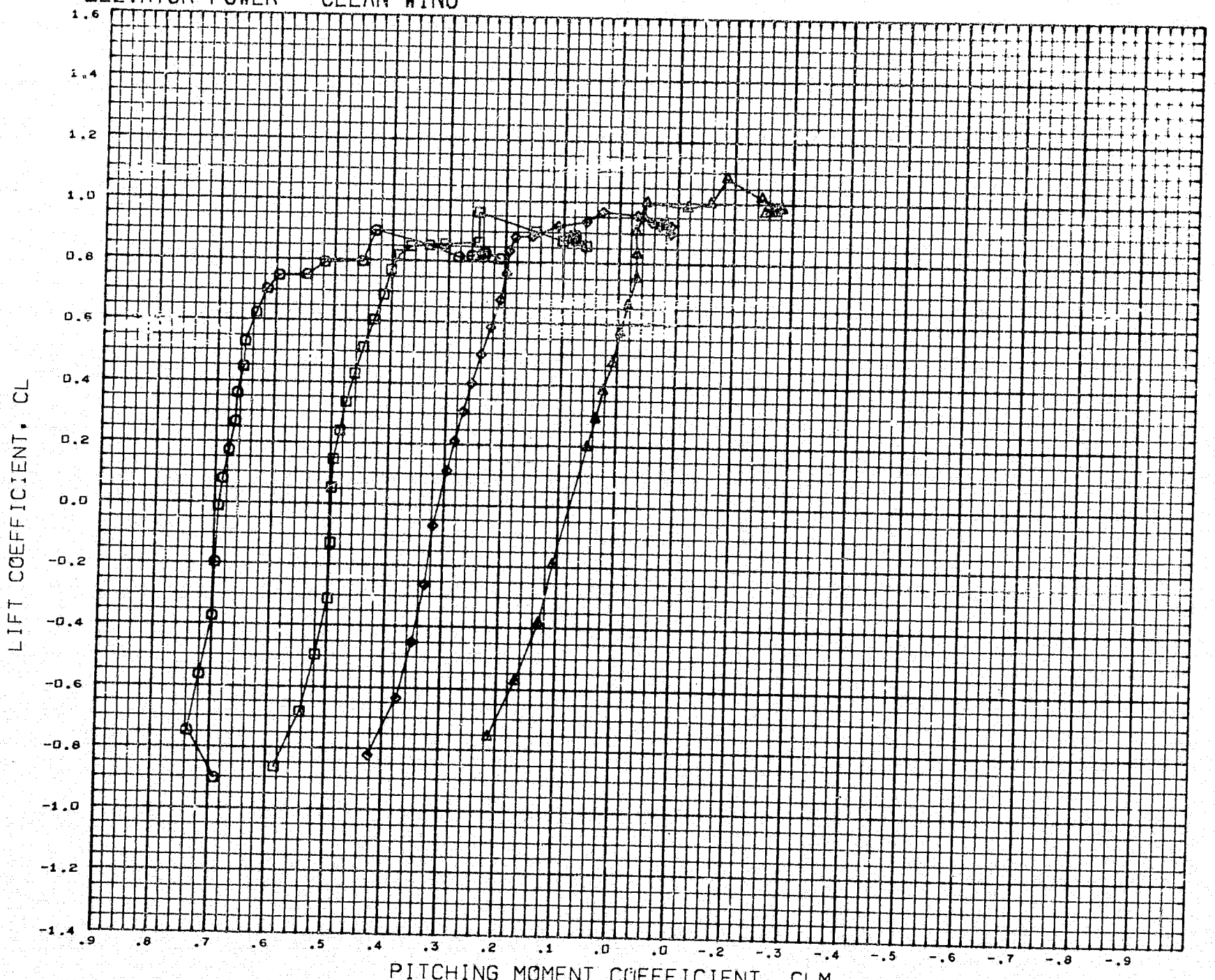
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	SF-L	0.000	SF-R	0.000
◇	- 5.000				
△	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.2800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER - CLEAN WING



SYMBOL	ELEVTR
○	- 15.000
□	- 10.000
◇	- 5.000
△	0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000
SP-L	0.000	SP-R	0.000

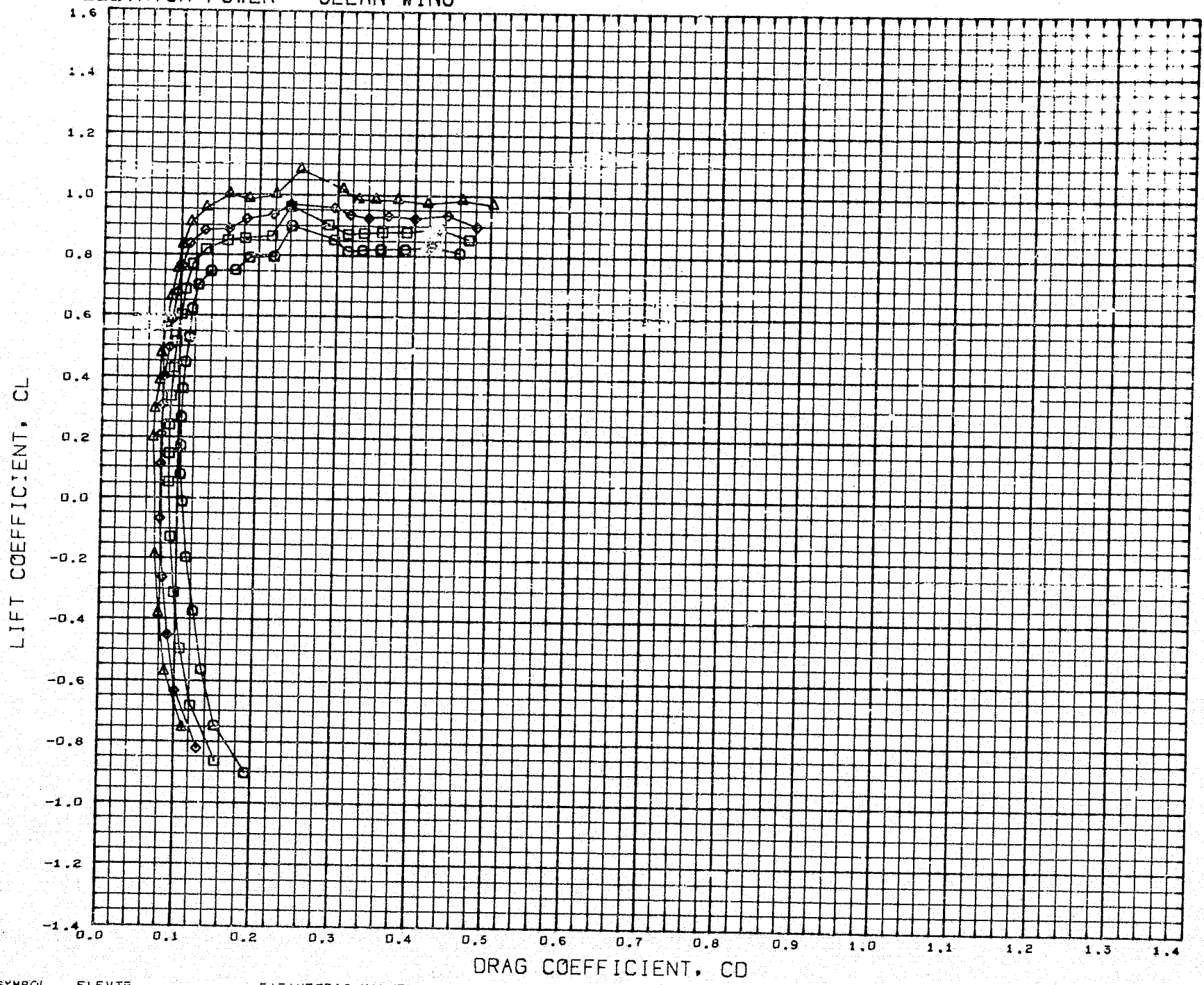
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1

ELEVATOR POWER - CLEAN WING



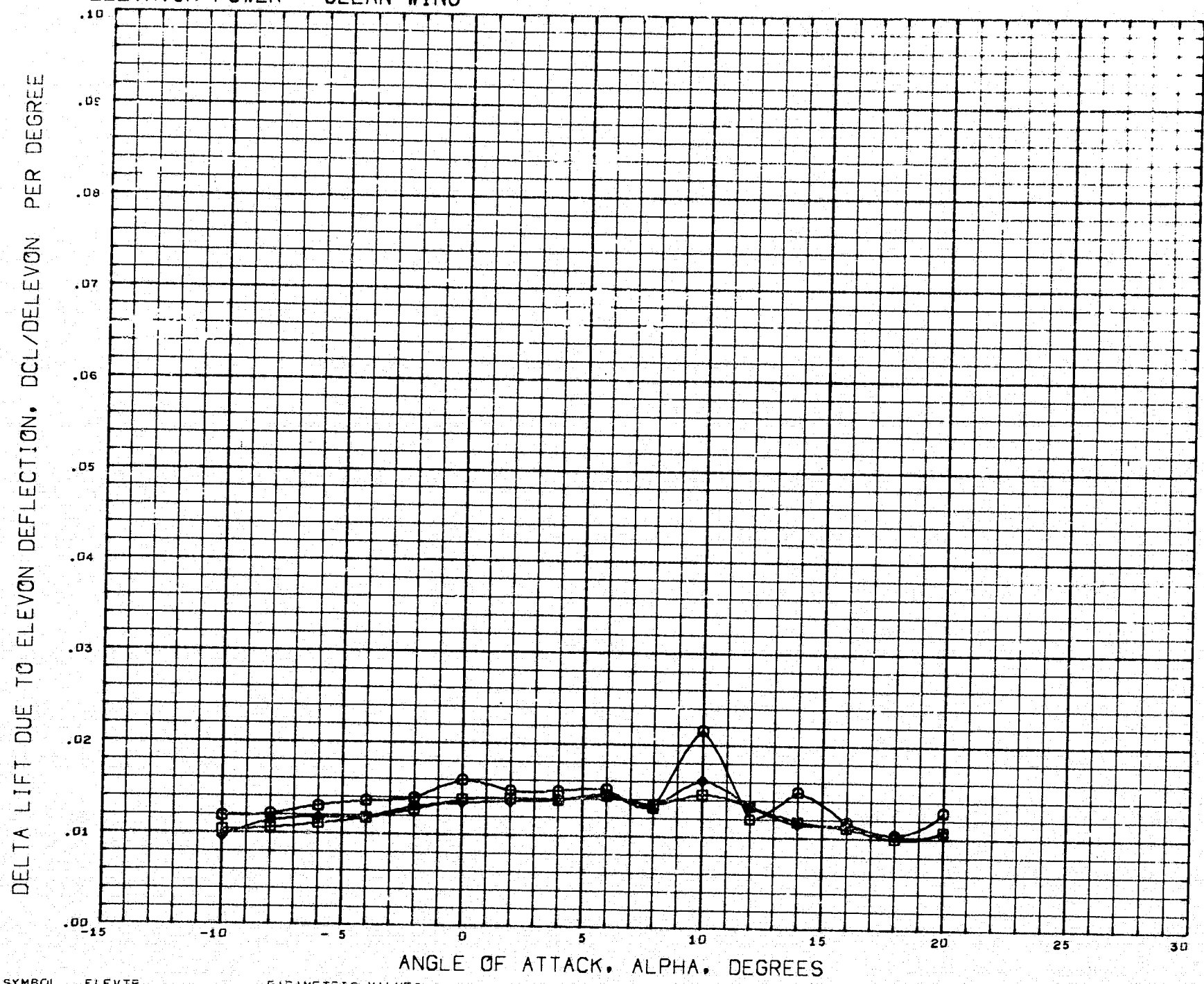
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	SP-L	0.000	SP-R	0.000
◇	- 5.000				
△	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER - CLEAN WING



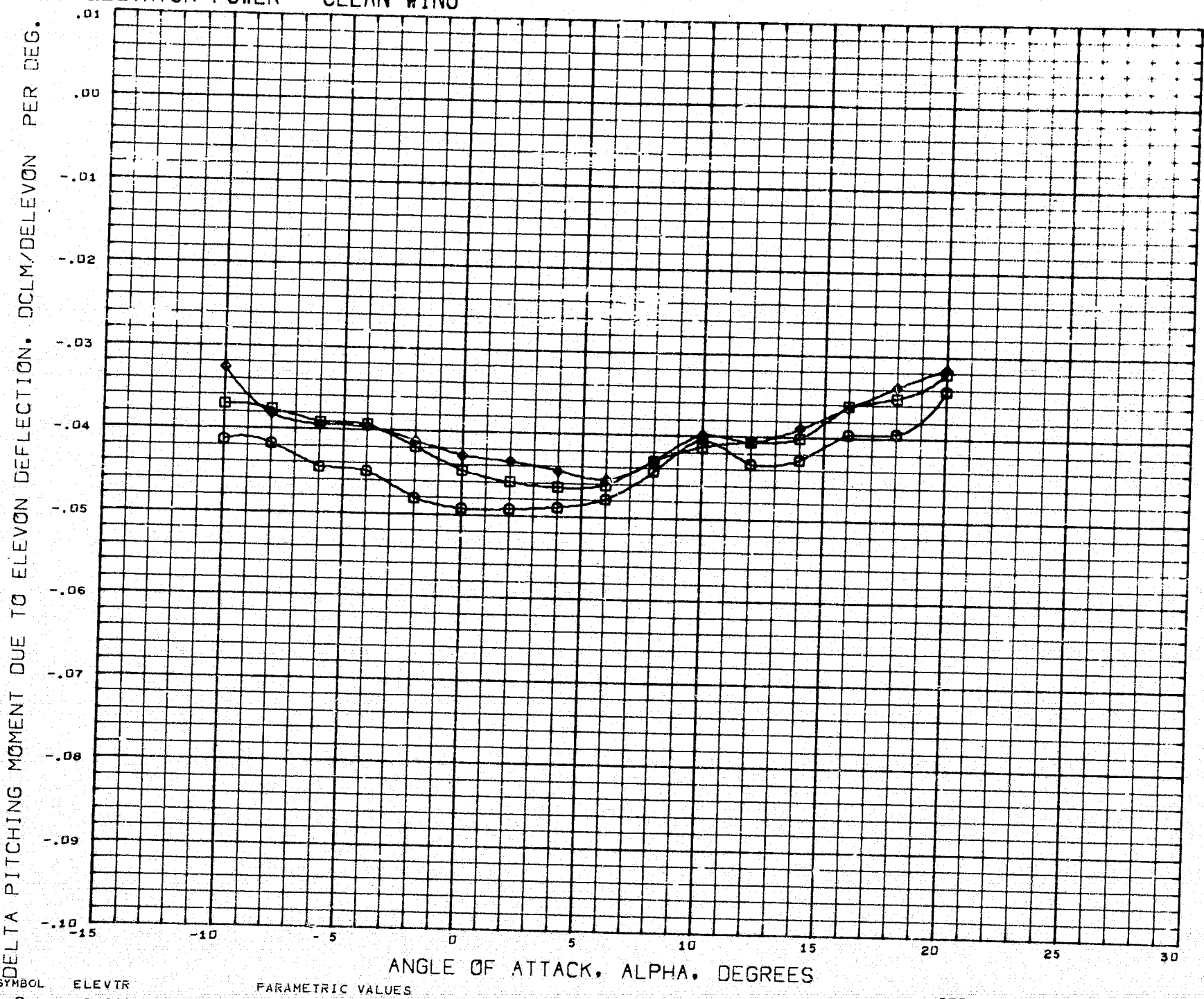
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 5.000	FLAP	0.000	BETA	0.000
□	- 10.000	HTAIL	- 5.000		
◇	- 15.000				

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REF3	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE *F

ELEVATOR POWER - CLEAN WING



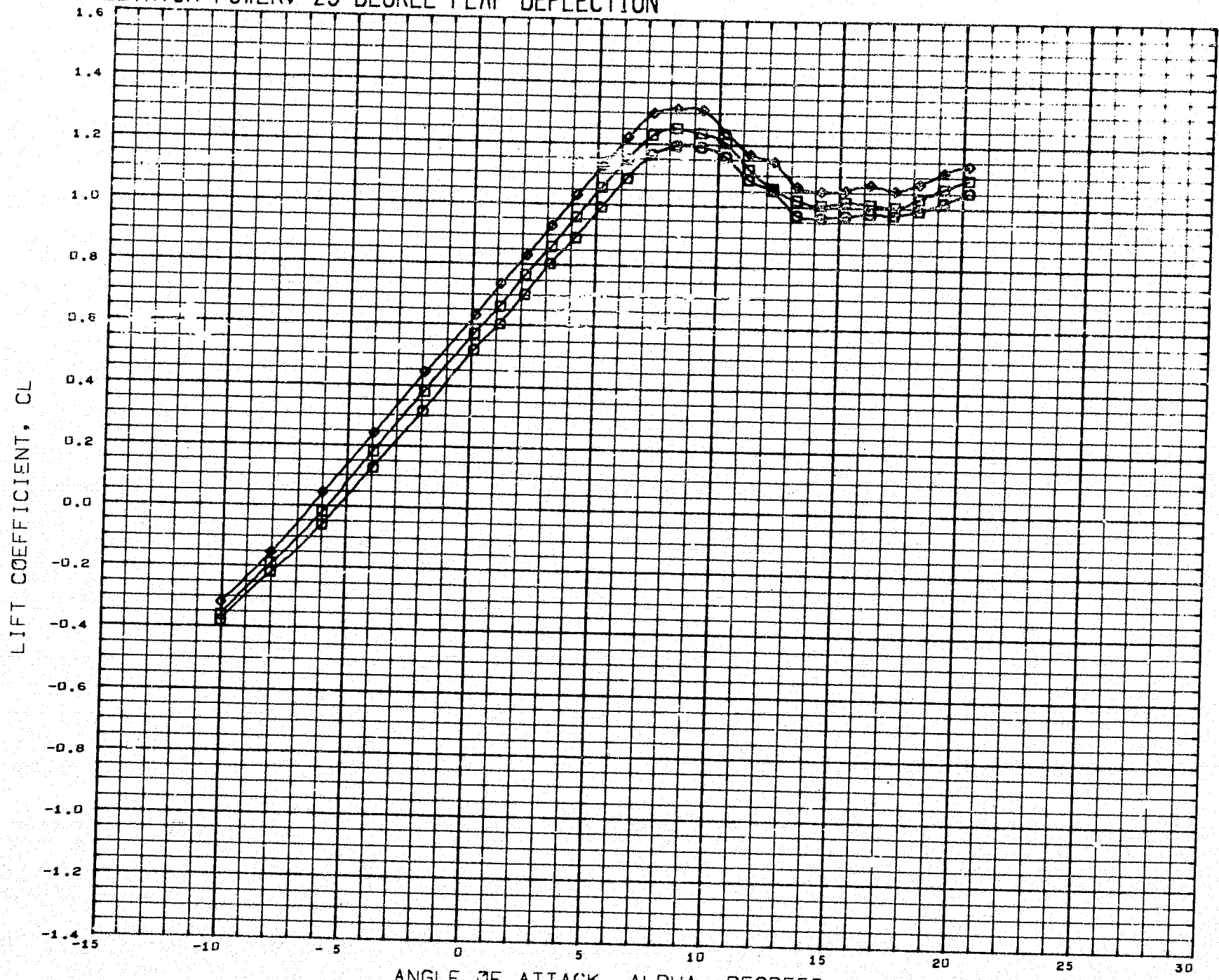
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○ □	- 5.000	FLAP	0.000	BETA	0.000
◇	- 10.000	HTAIL	- 5.000		
	- 15.000				

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	ELEVTR	PARAMETRIC VALUES			
O	- 10.000	BETA	0.000	HTAIL	- 5.000
□	- 5.000	FLAP	25.000		
◇	0.000				

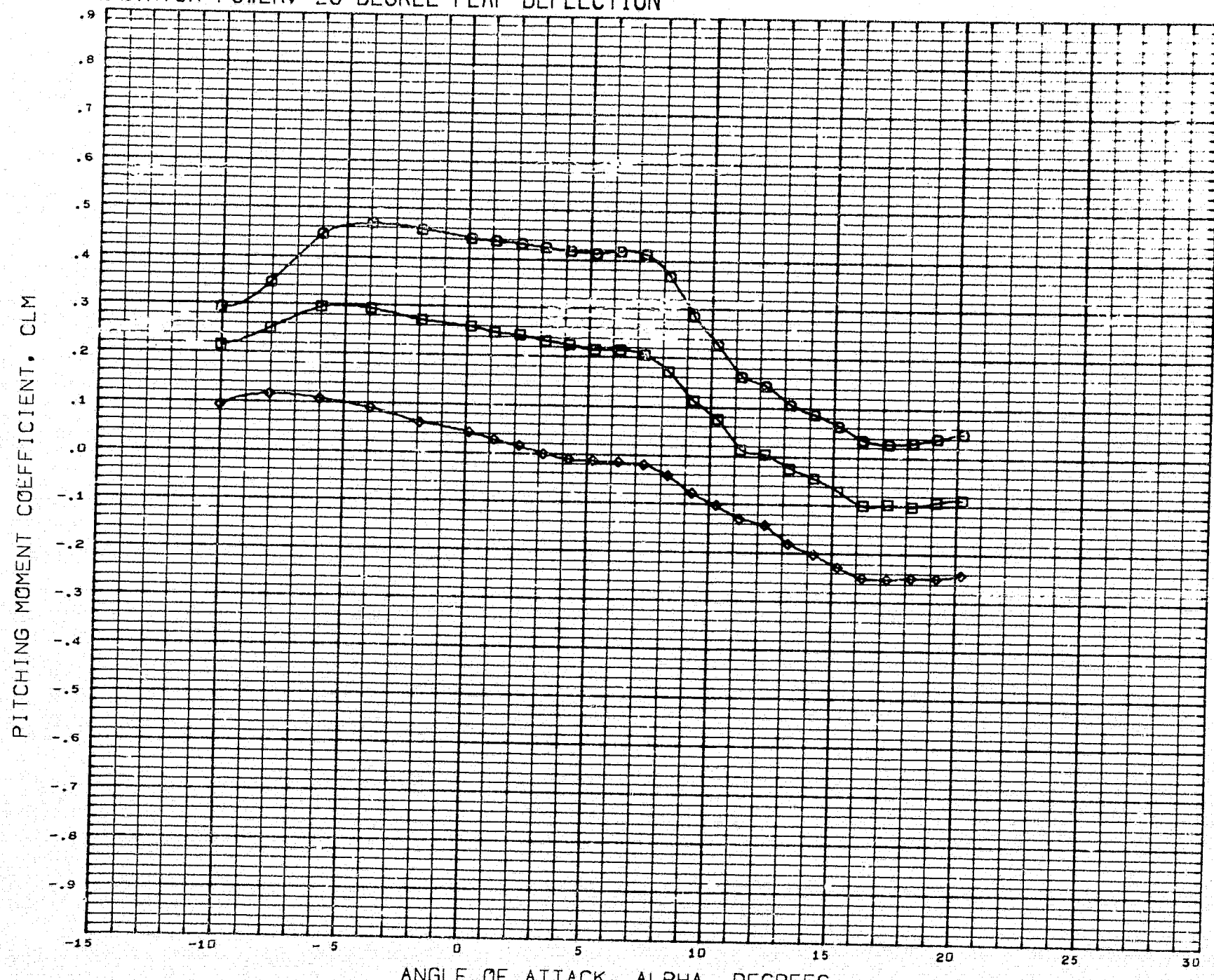
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

4.0 PC 01 LSWT 237 B4W2V1H1F2G (BCDA24) 29 APR 71 PAGE 106

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



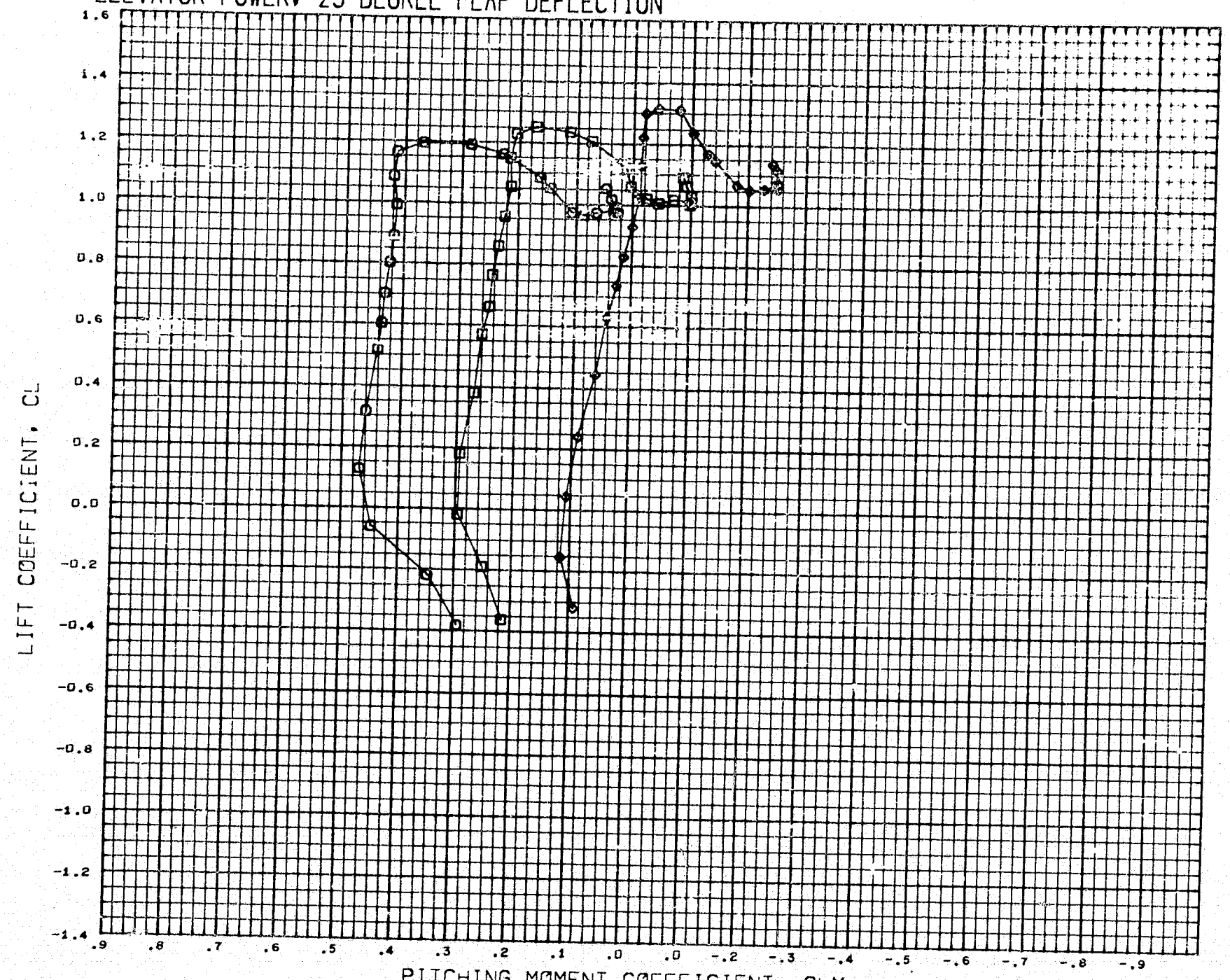
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 10.000	BETA	0.000	HTAIL	- 5.000
□	- 5.000	FLAP	25.000		
◇	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



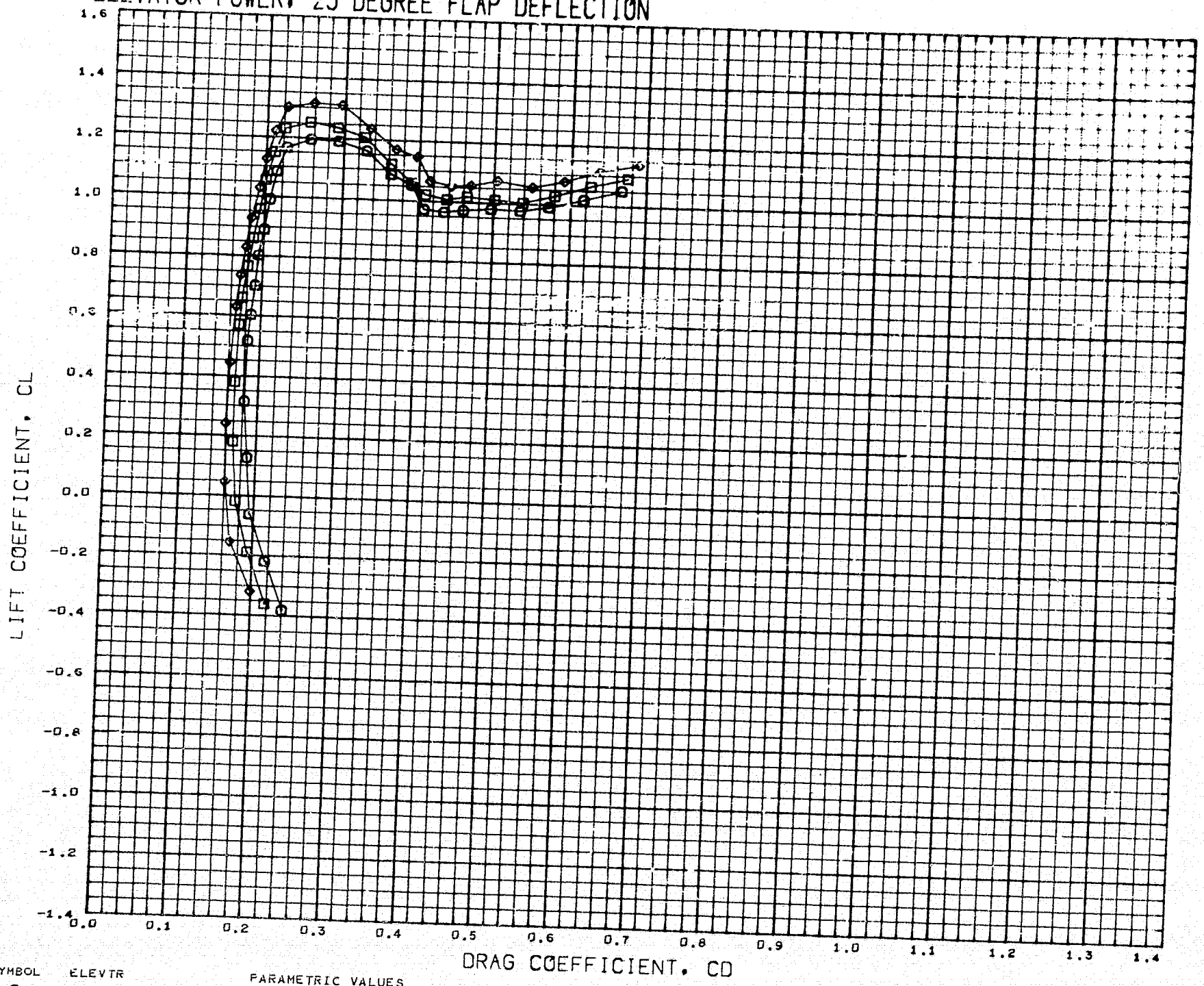
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 10.000	BETA	0.000	HTAIL	- 5.000
□	- 5.000	FLAP	25.000		
◇	0.000				

DATA HIST. CODE V#E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3900	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	- 10.000	BETA	0.000	HTAIL	- 5.000
□	- 5.000	FLAP	25.000		
◇	0.000				

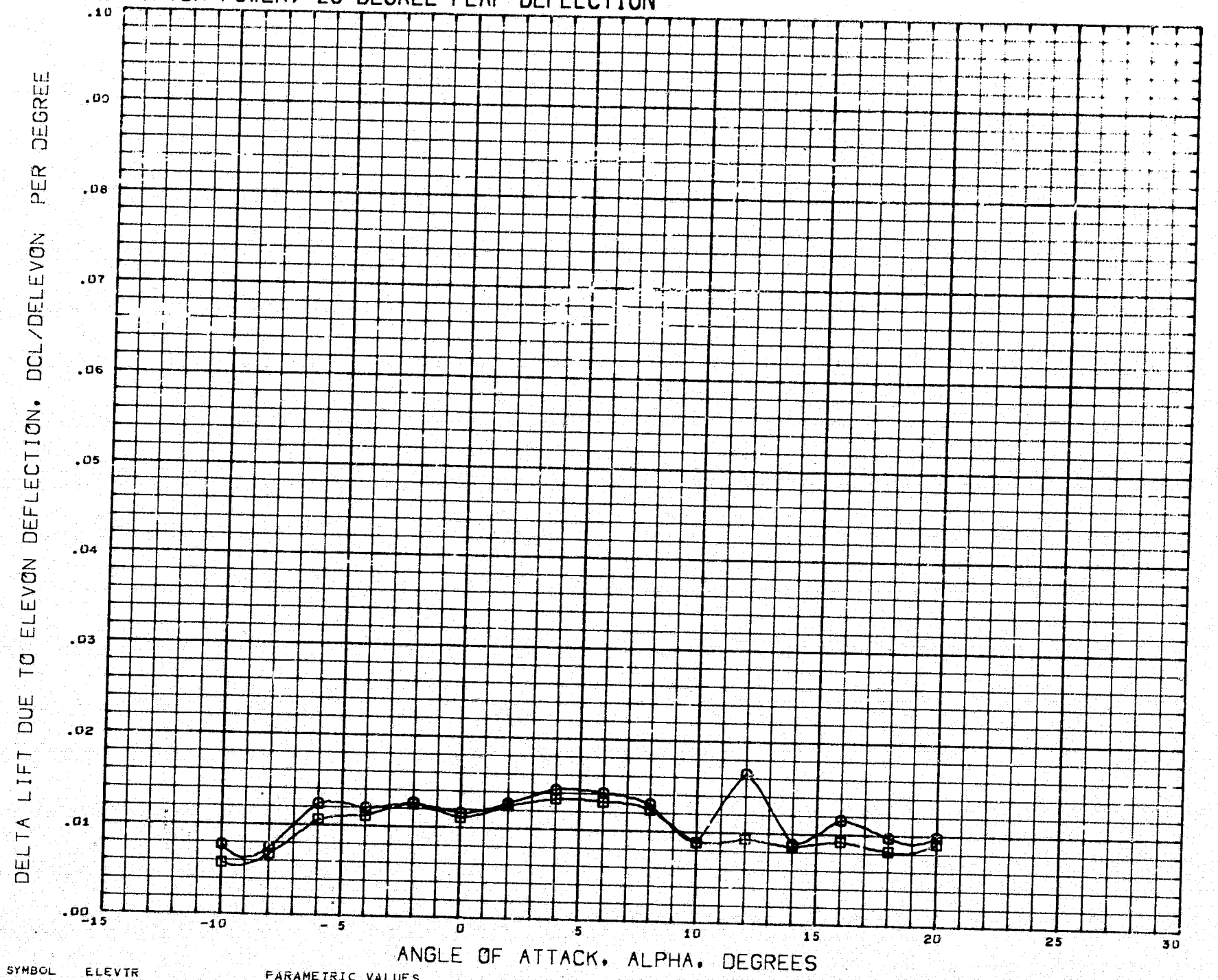
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4W2V1H1F2G

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



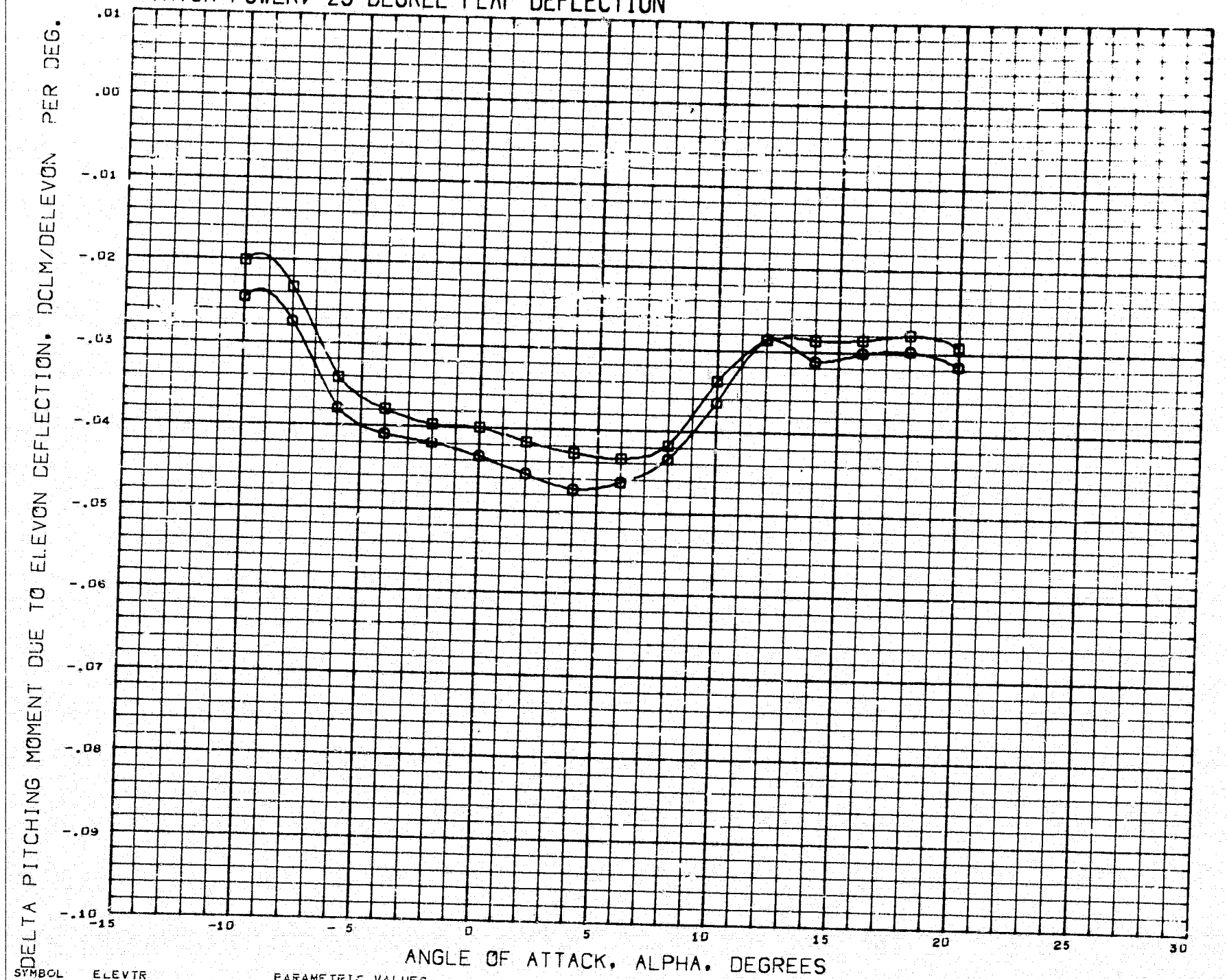
SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	- 5.000	FLAP	25.000	BETA	0.000
□	- 10.000	HTAIL	- 5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE #P

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION



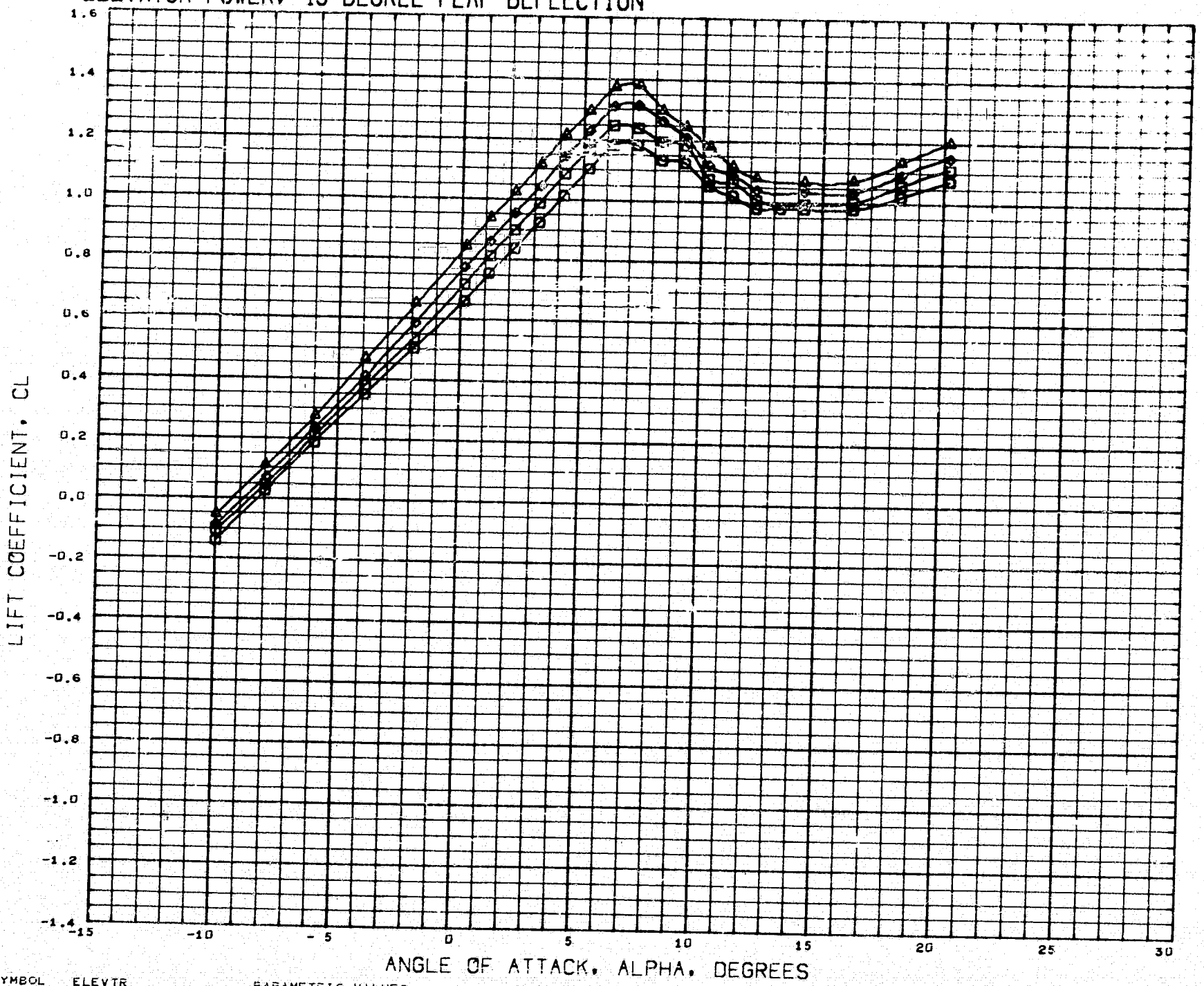
SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	- 5.000	FLAP	25.000	BETA	0.000
□	-10.000	HTAIL	- 5.000		

DATA HIST. CODE *F

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	FLAP	45.000	SP-L	0.000
◇	- 5.000	SP-R	0.000		
△	0.000				

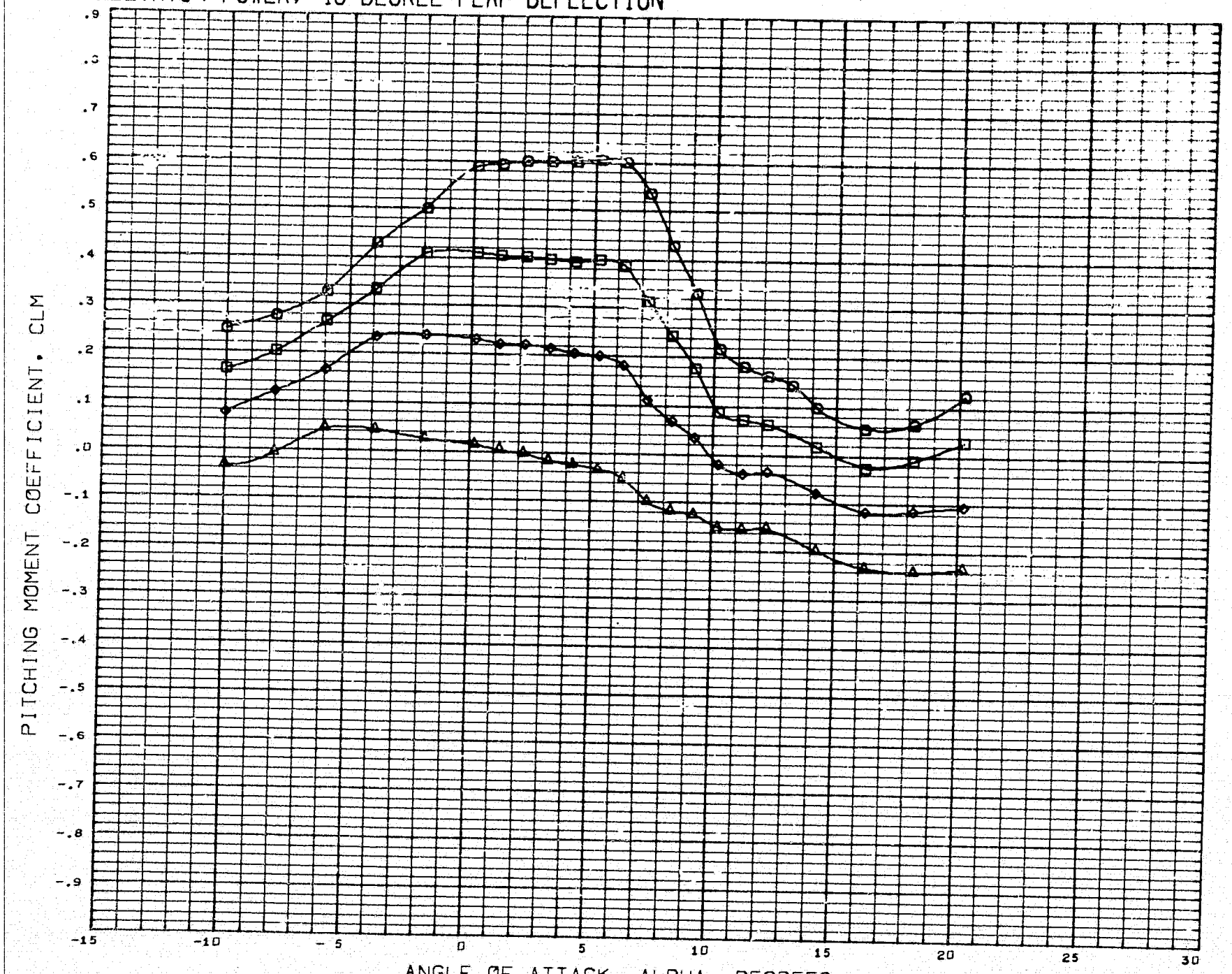
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F26

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



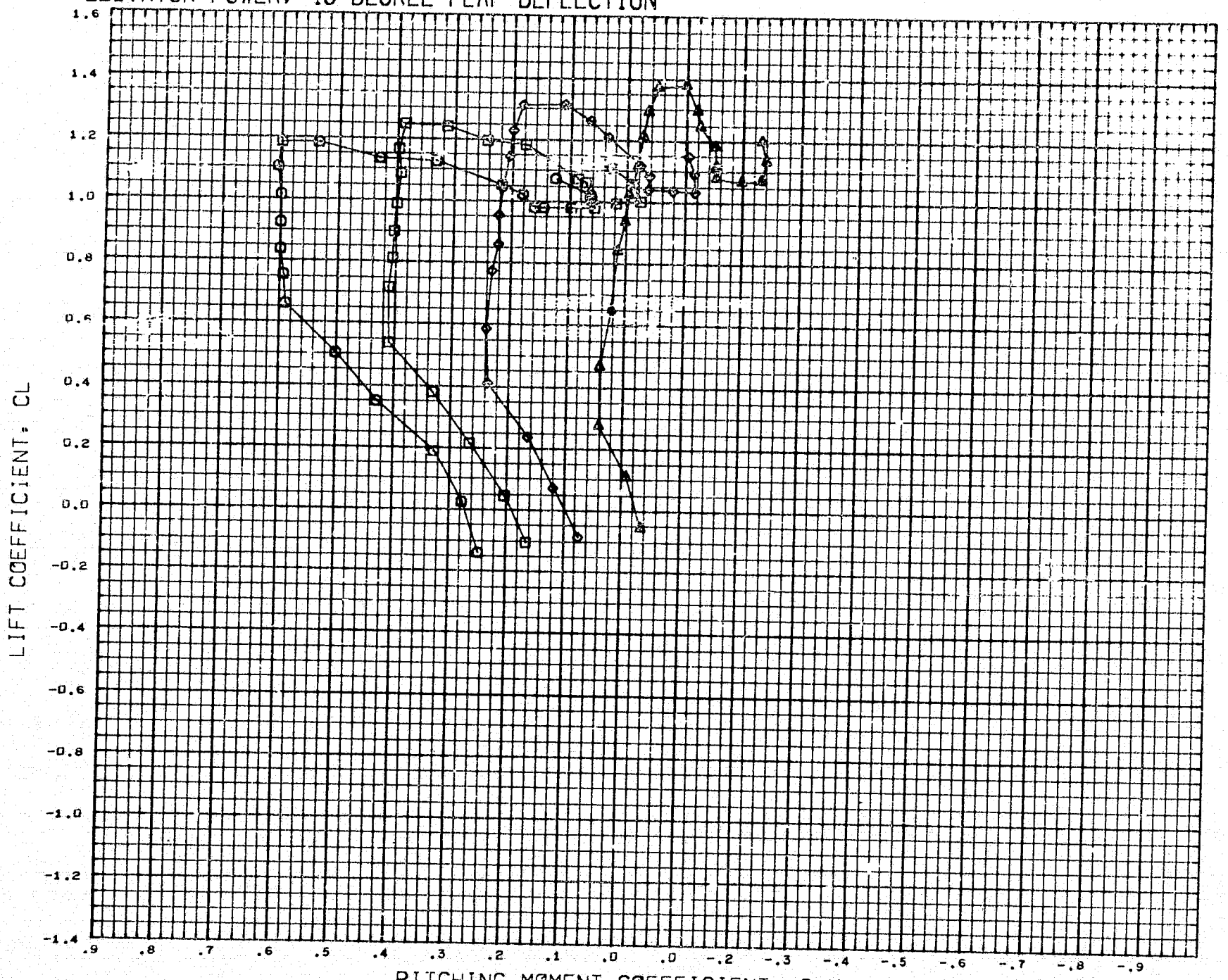
SYMBOL	ELEVTR		PARAMETRIC VALUES		
O	-15.000	BETA	0.000	HTAIL	-5.000
□	-10.000	FLAP	45.000	SP-L	0.000
◇	-5.000	SP-R	0.000		
△	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	3.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



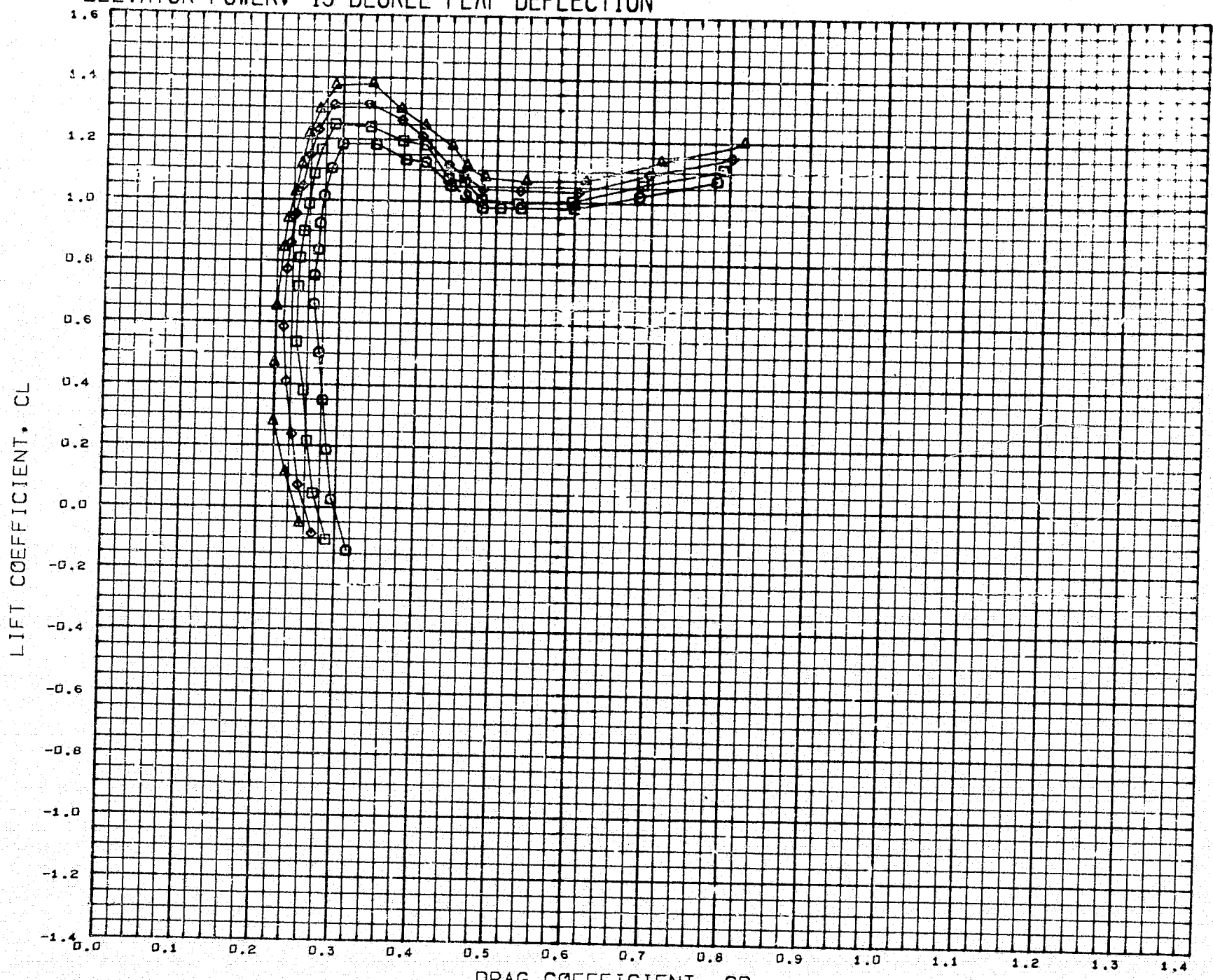
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	FLAP	45.000	SP-L	0.000
◇	- 5.000	SP-R	0.000		
△	0.000				

DATA HIST. CODE V#E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	FLAP	45.000	SP-L	0.000
◇	- 5.000	SP-R	0.000		
△	0.000				

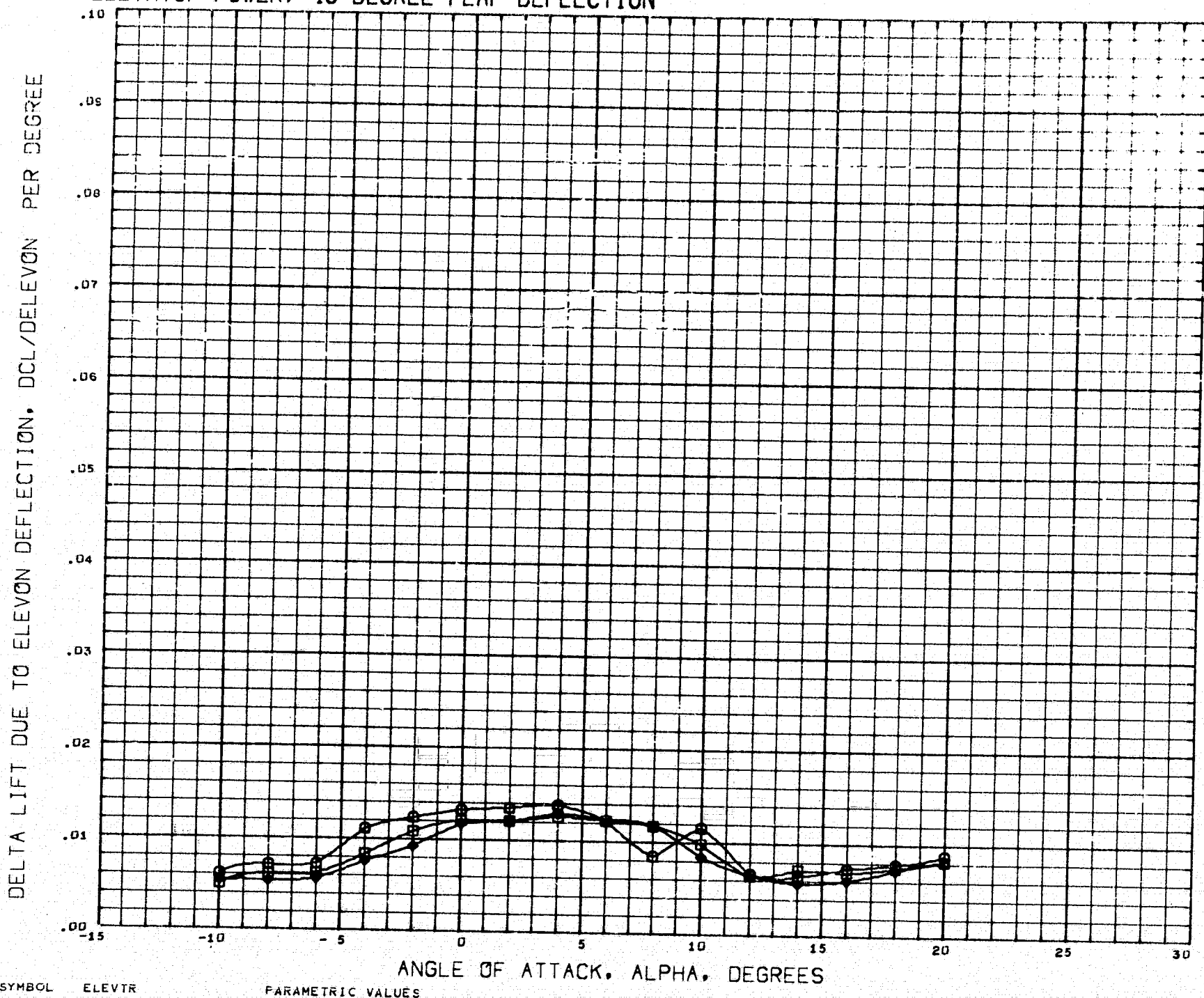
DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1F2G

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



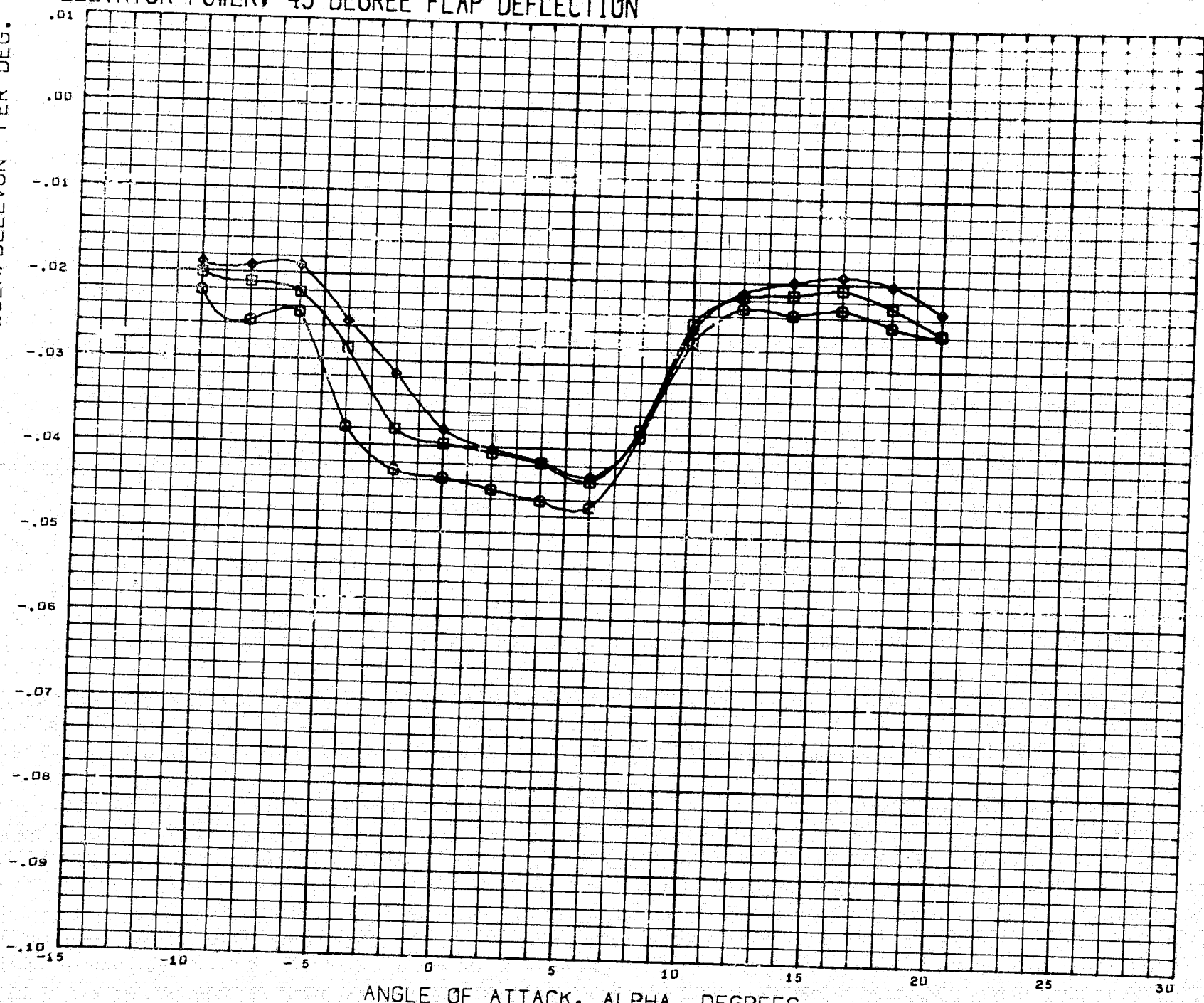
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 5.000	FLAP	45.000	BETA	0.000
□	- 10.000	HTAIL	- 5.000	SF-L	0.000
◇	- 15.000	SF-R	0.000		

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION



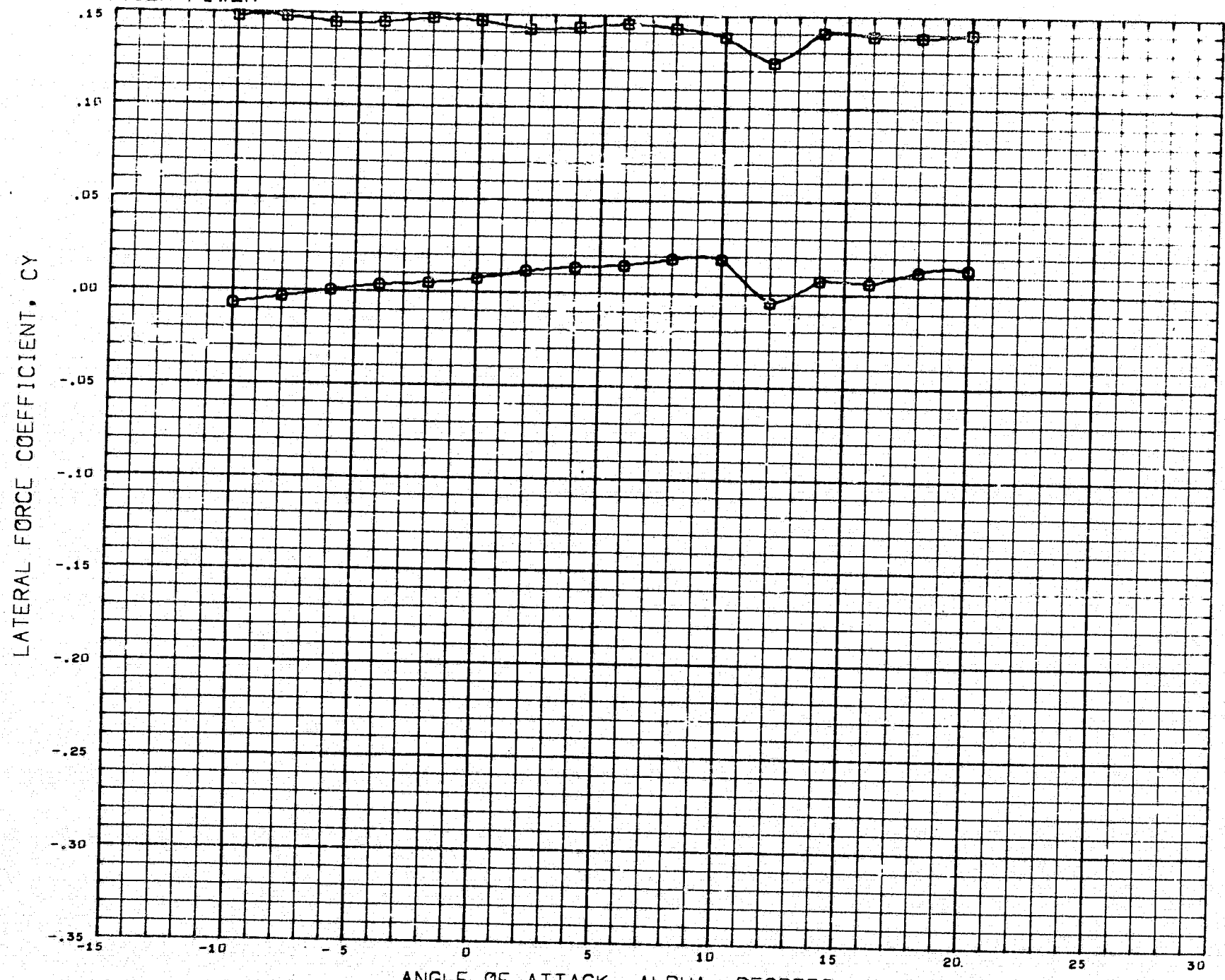
SYMBOL	ELEVTR		PARAMETRIC VALUES		
◇□○	- 5.000	FLAP	45.000	BETA	0.000
◇□○	- 10.000	HTAIL	- 5.000	SF-L	0.000
◇□○	- 15.000	SF-R	0.000		

DATA HIST. CODE #P

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RUDDER POWER



SYMBOL	RUDDER	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	-5.000	FLAP	0.000

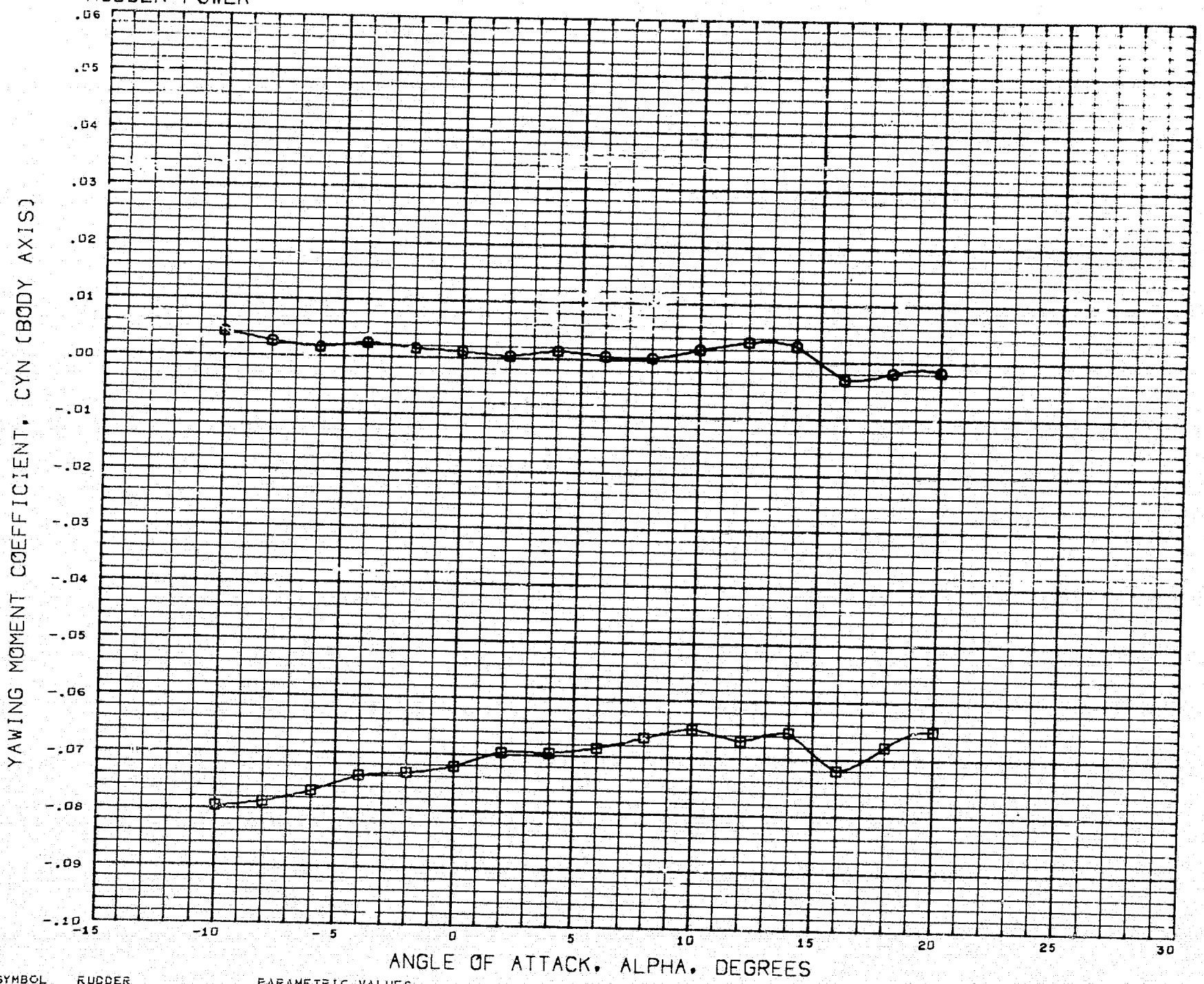
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFD	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AIM

4.0 PC 01 LSWT 237 B4W2V1H1

RUDDER POWER



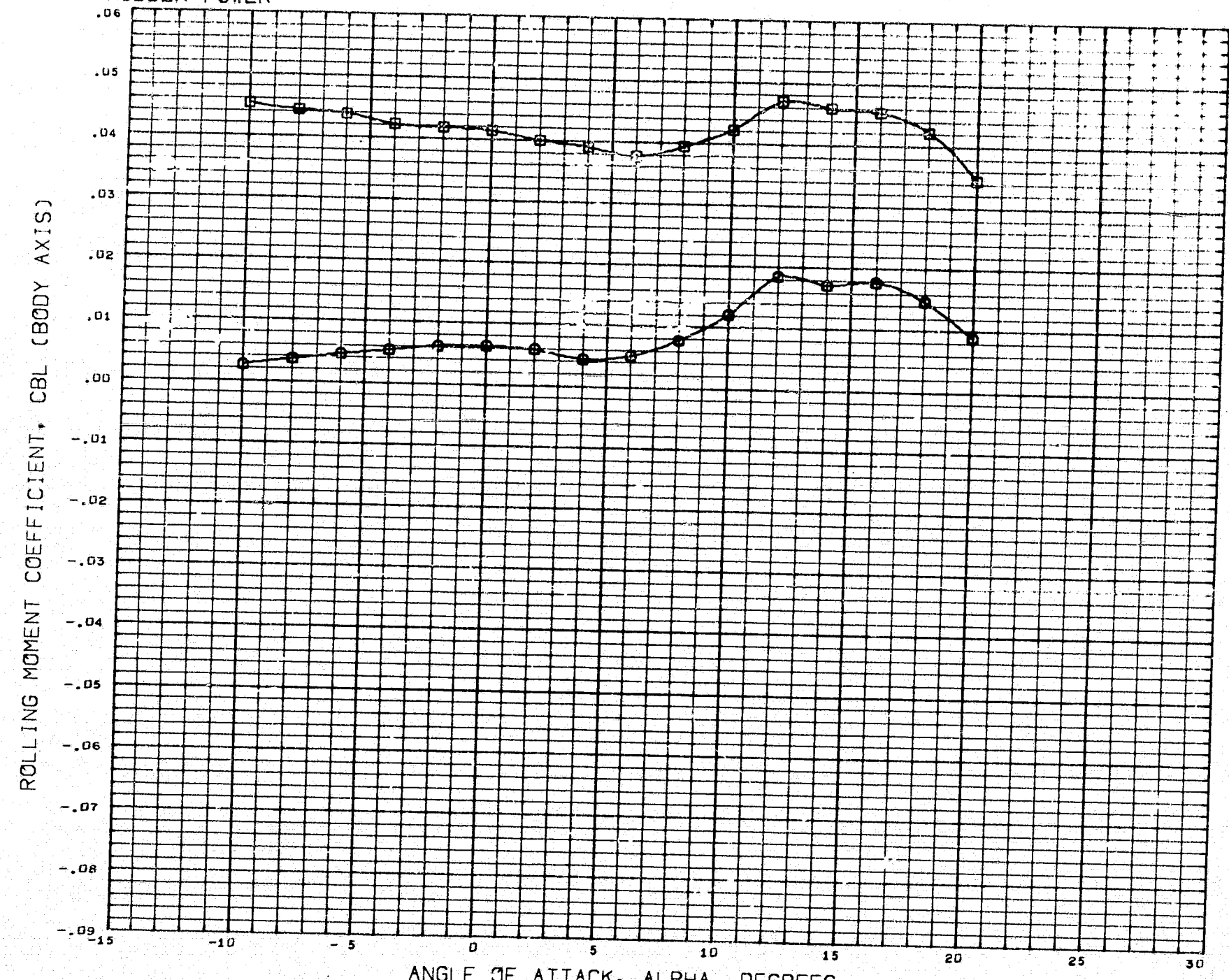
SYMBOL	RUDDER	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	FLAP	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AIM

RUDDER POWER



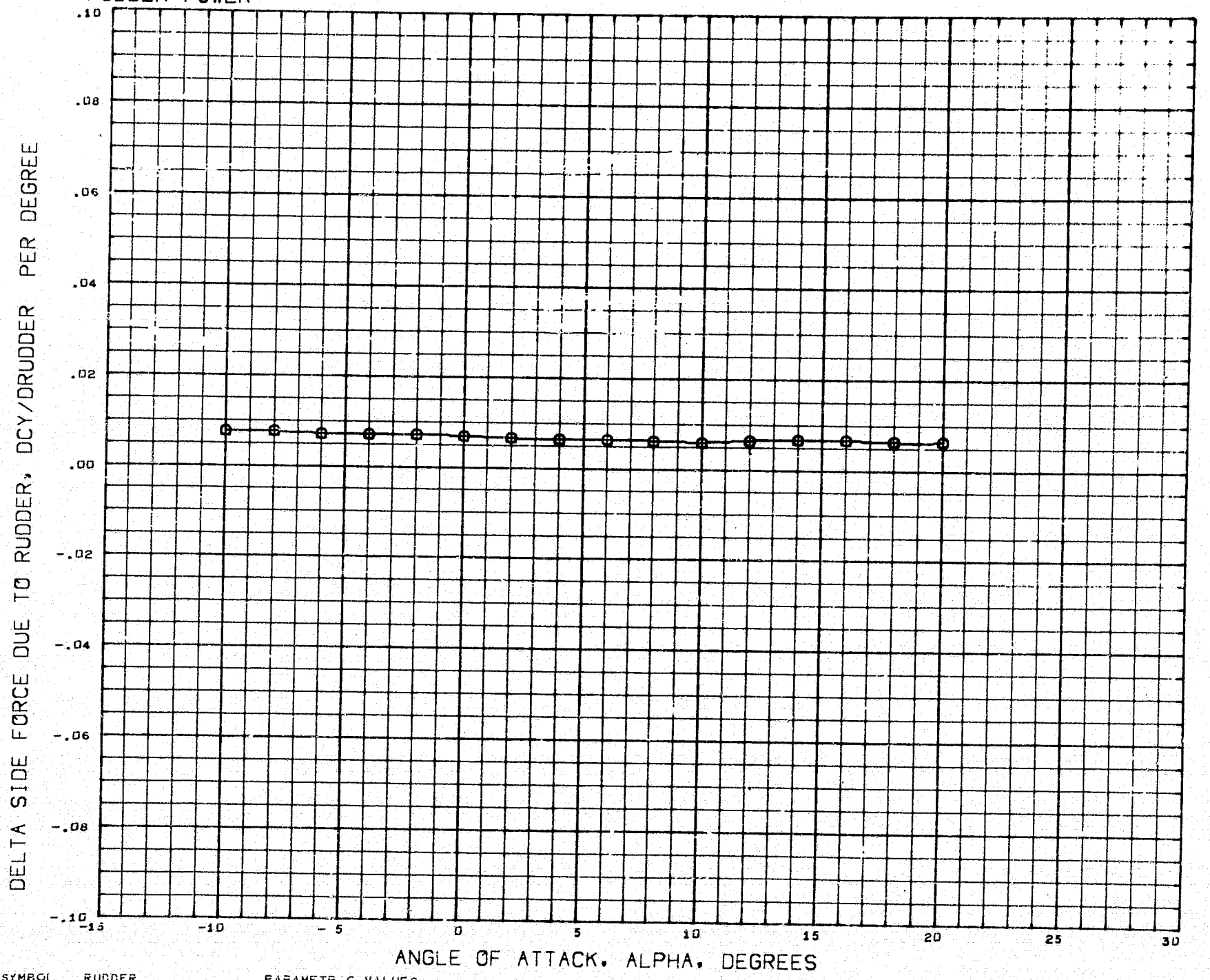
SYMBOL	RUDDER		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	FLAP	0.000

DATA HIST. CODE V*E*AIM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RUDDER POWER



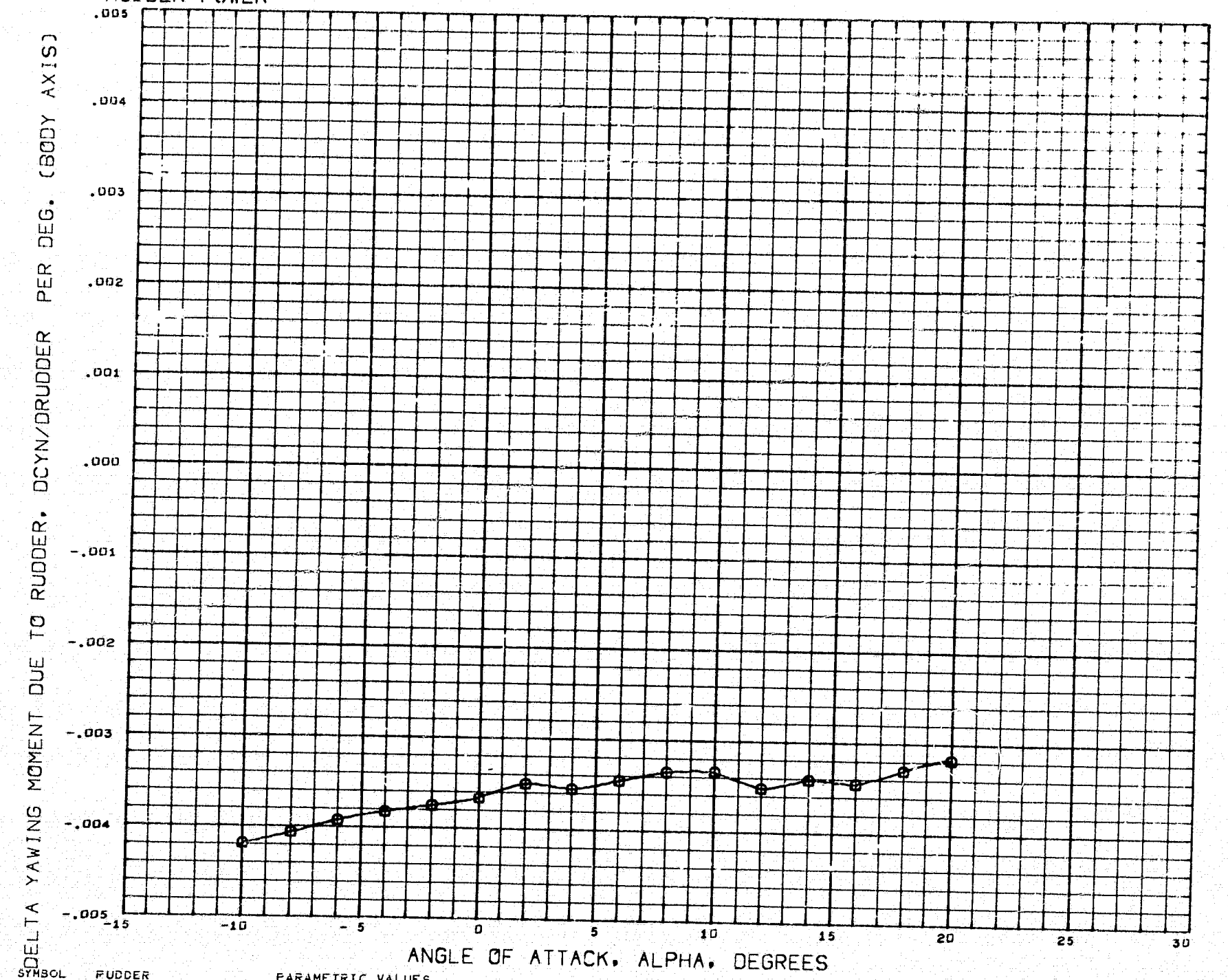
SYMBOL	RUDDER		PARAMETRIC VALUES		
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	- 5.000	FLAP	0.000

DATA HIST. CODE #F

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

RUDDER POWER



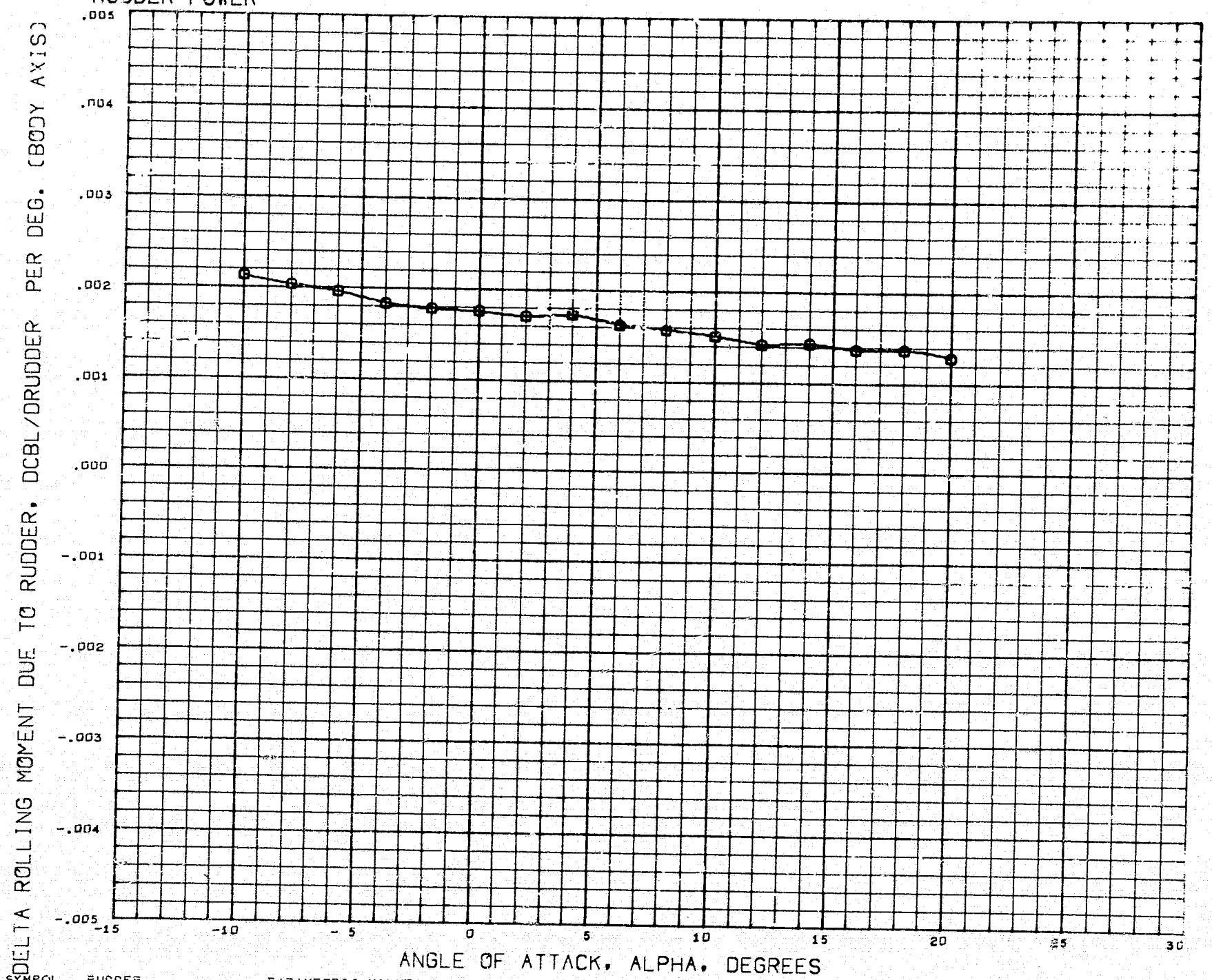
SYMBOL	RUDDER	PARAMETRIC VALUES			
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	- 5.000	FLAP	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REF3	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE *P

RUDDER POWER

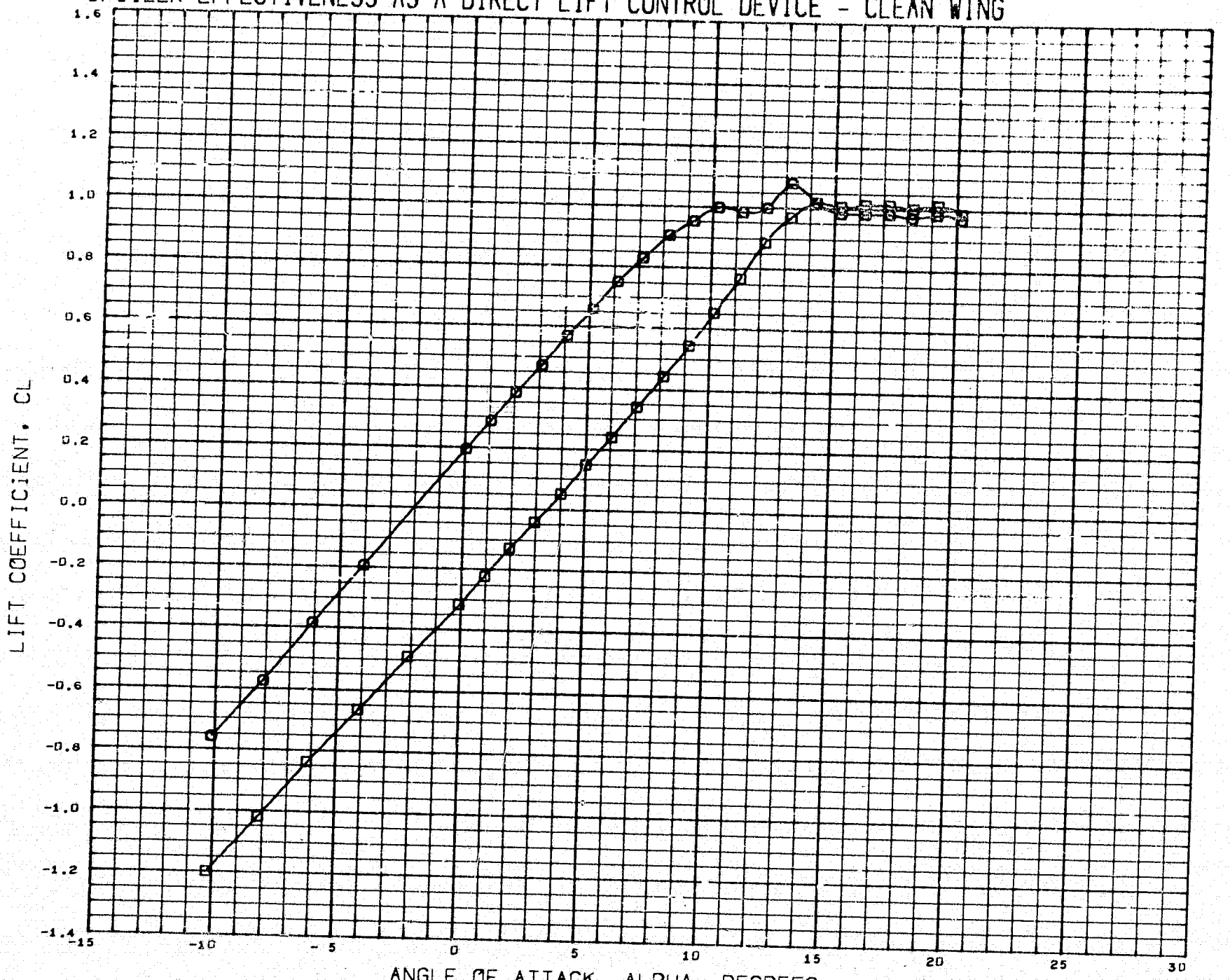


SYMBOL	RUDDER	PARAMETRIC VALUES			
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	-5.000	FLAP	0.000

DATA HIST. CODE #F

REFERENCE INFORMATION		
REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR
○	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	0.000
AILRON	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3200	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

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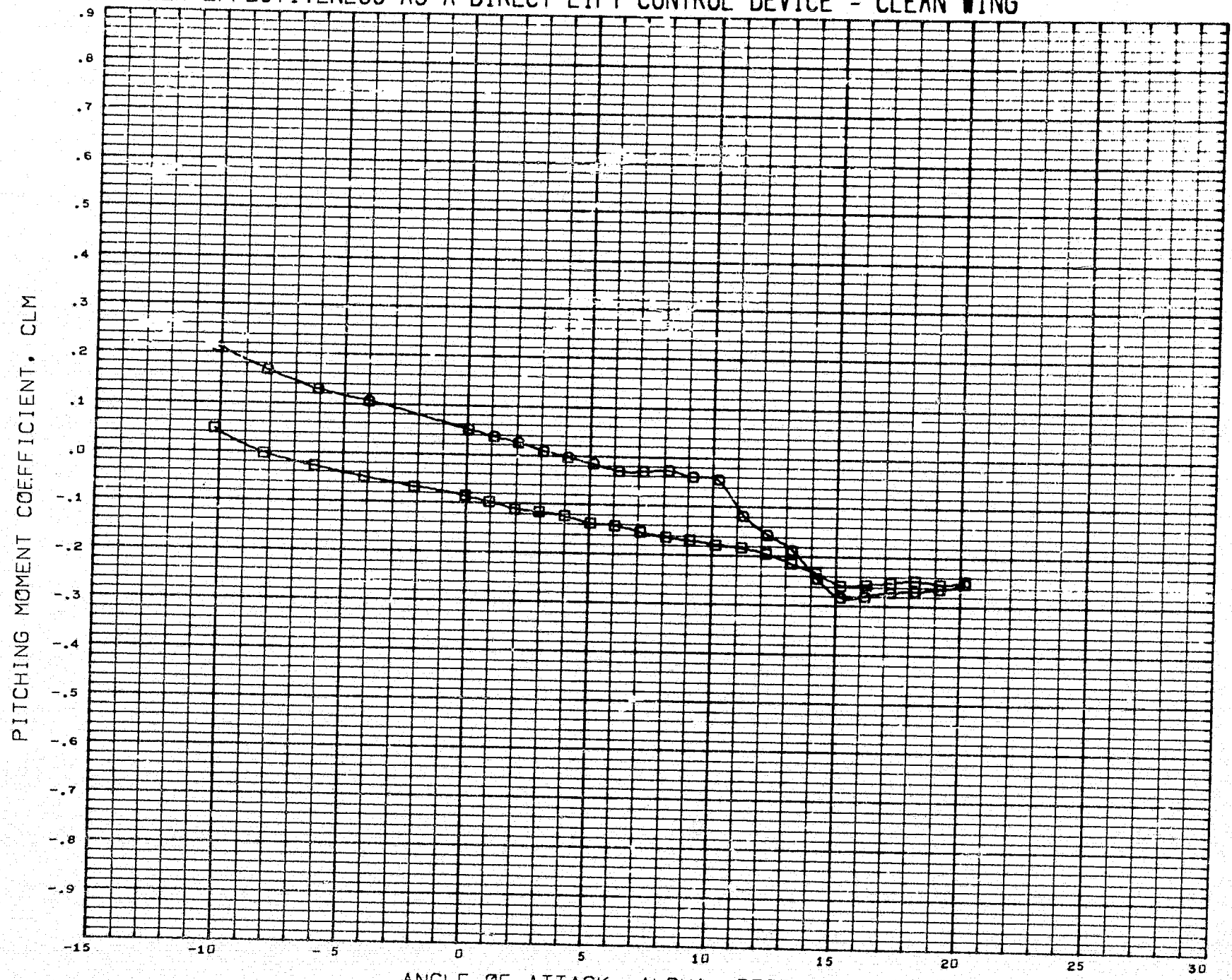
SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

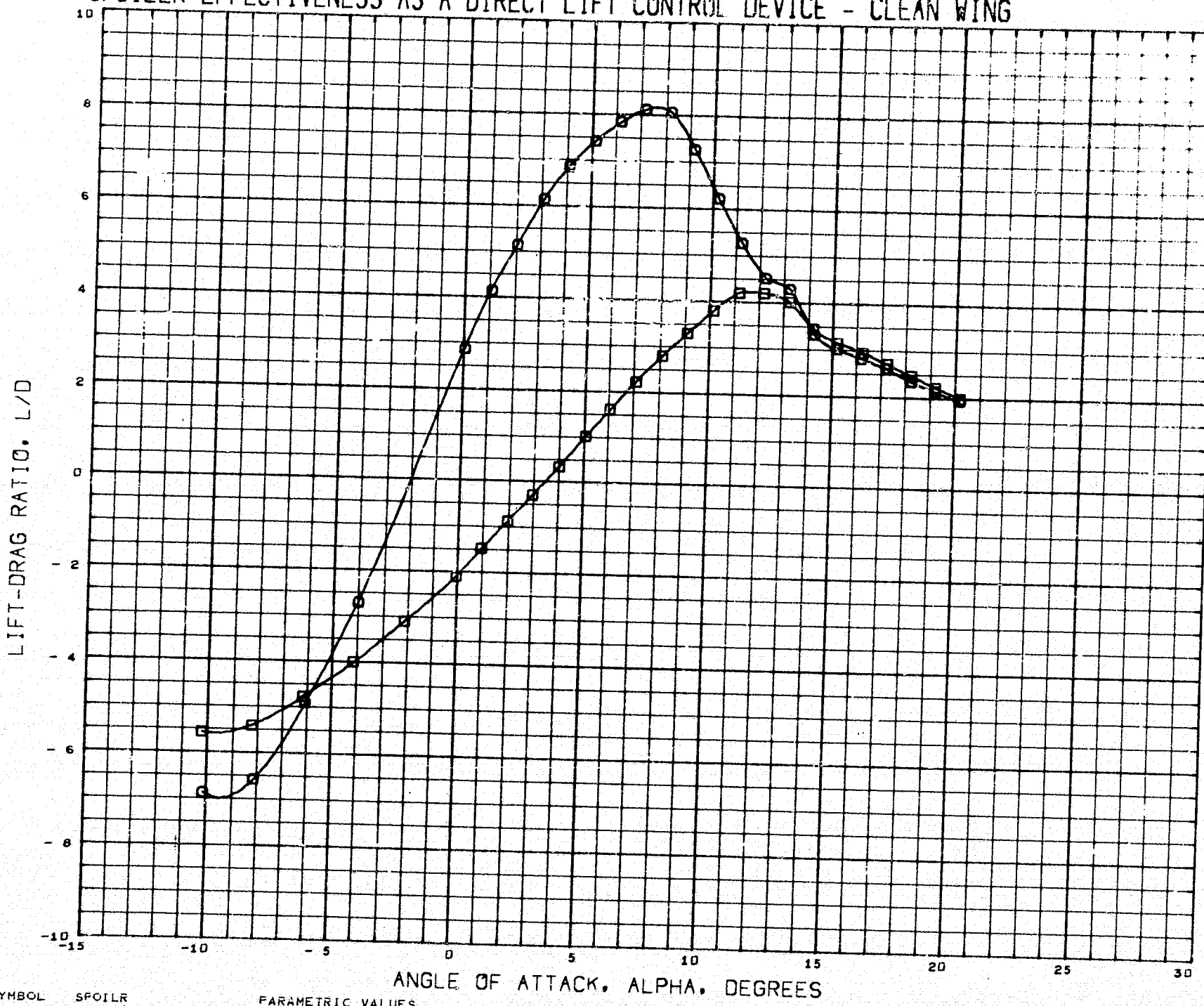
ELEVTR	0.000	BETA	0.000
HTAIL	-5.000	FLAP	0.000
AILRON	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000		BETA		0.000
HTAIL	- 5.000		FLAP		0.000
AILRON	0.000				

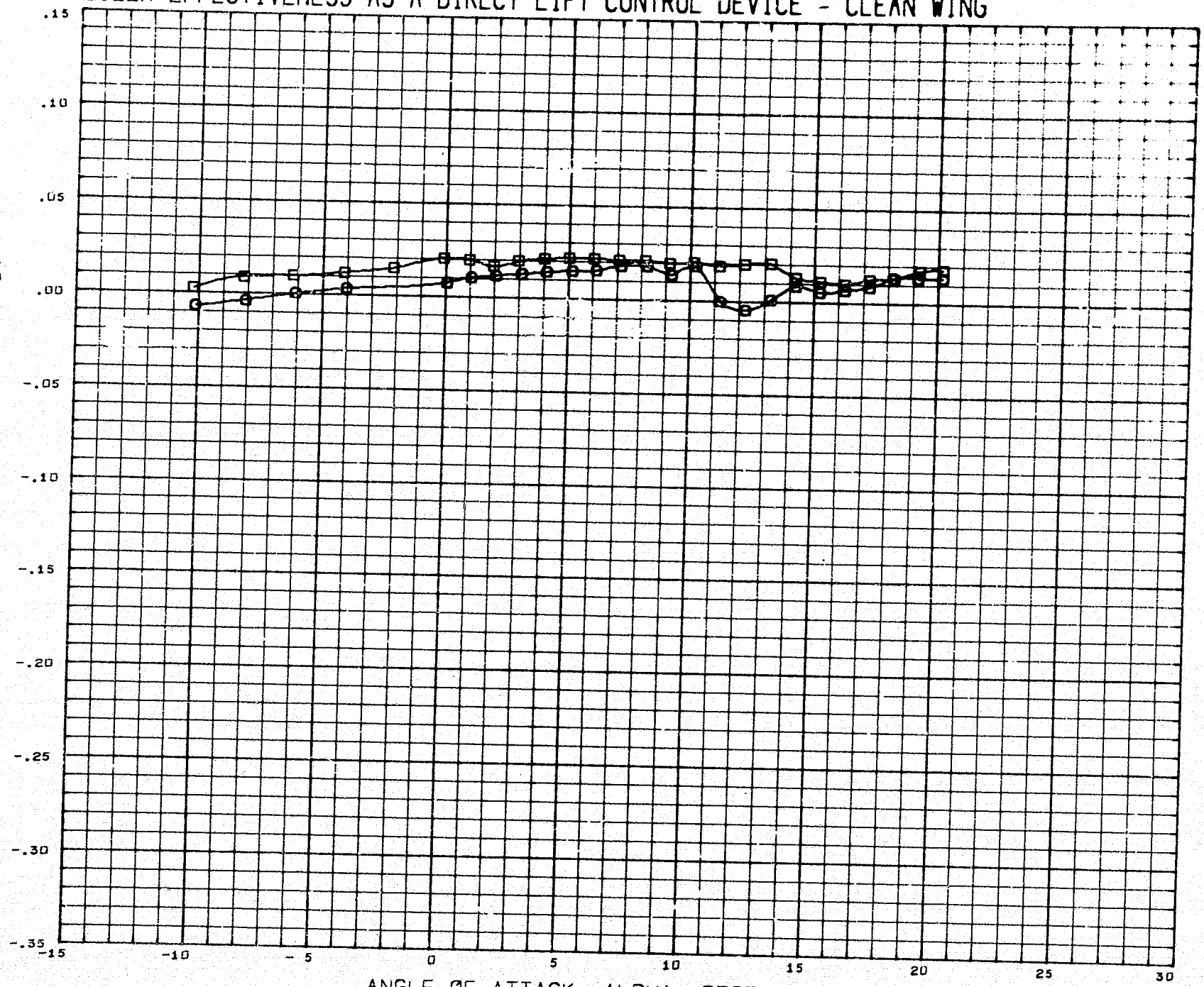
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



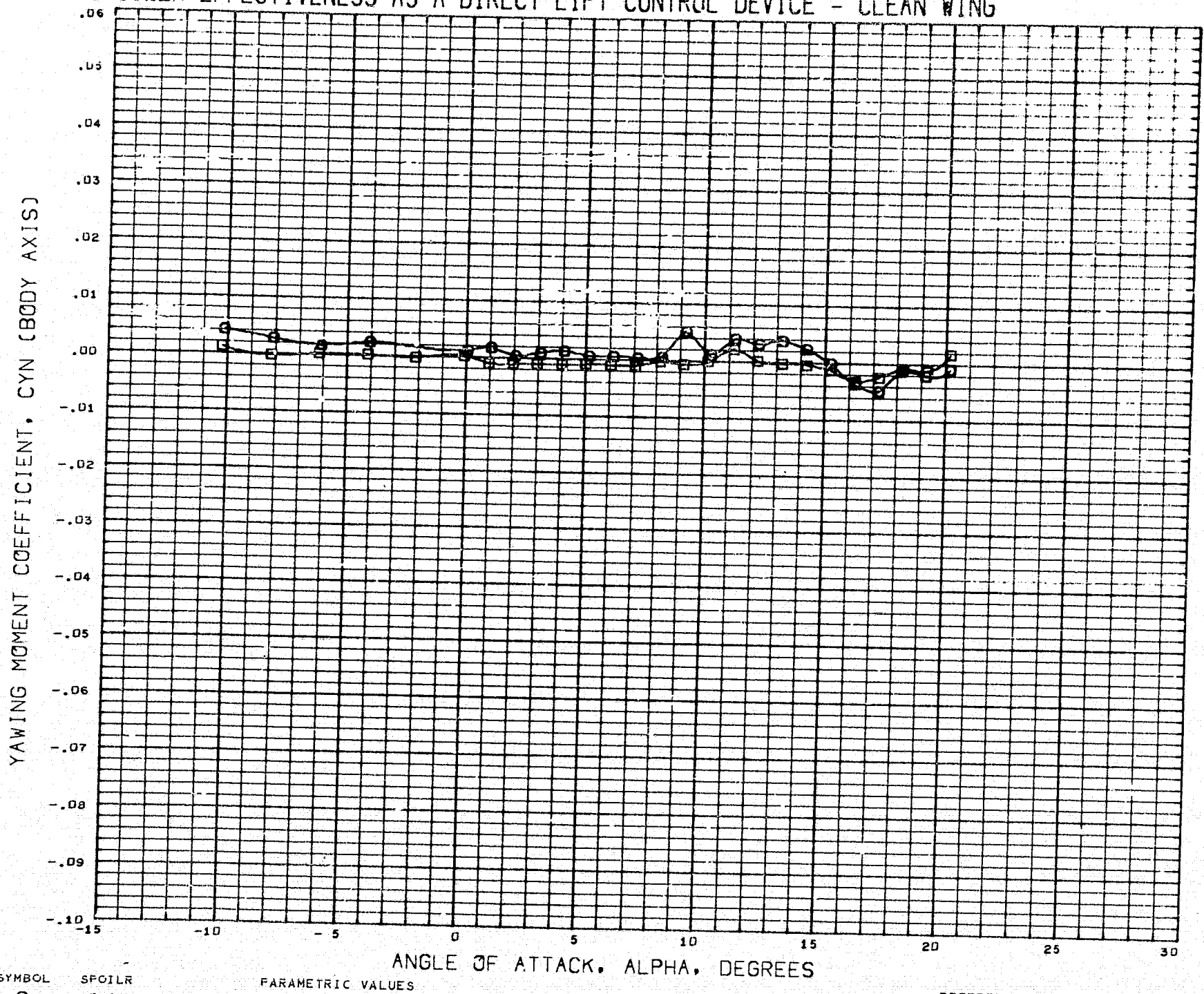
SYMBOL	SPOILR	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	0.000
		AILRON	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR
○	0.000
□	60.000

PARAMETRIC VALUES

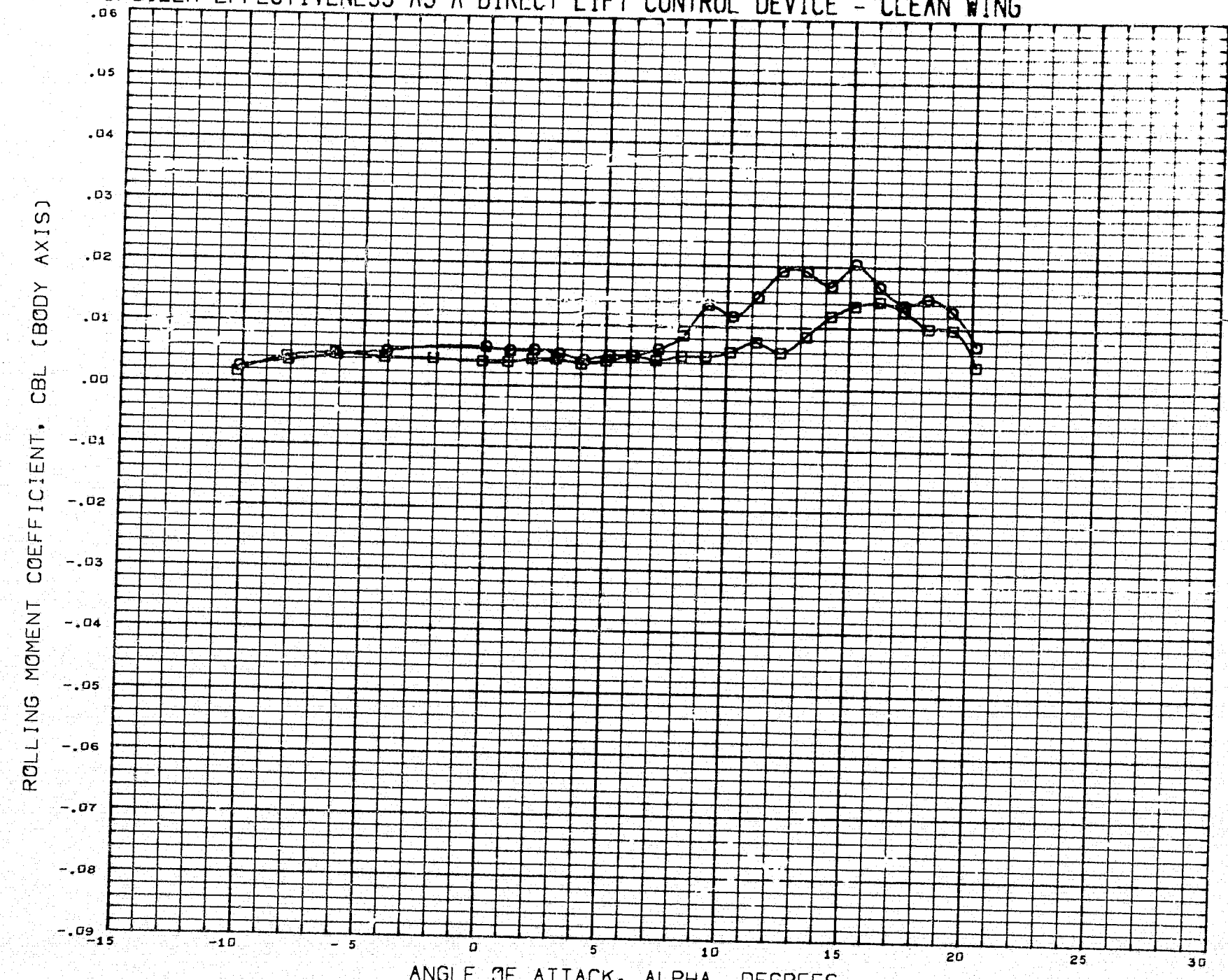
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	0.000
AILRON	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR		0.000	BETA		0.000
HTAIL	-	5.000	FLAP		0.000
AILRON		0.000			

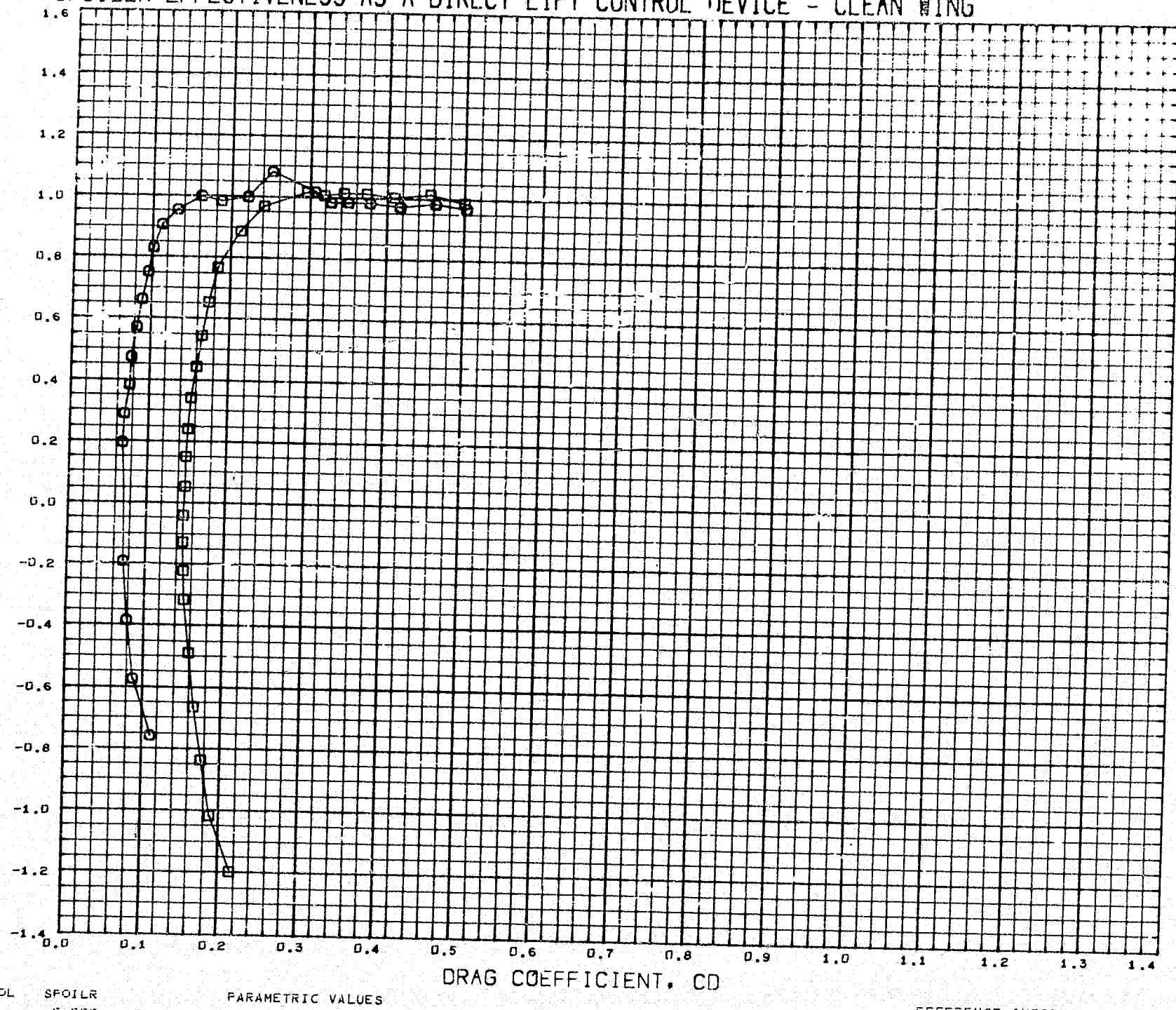
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



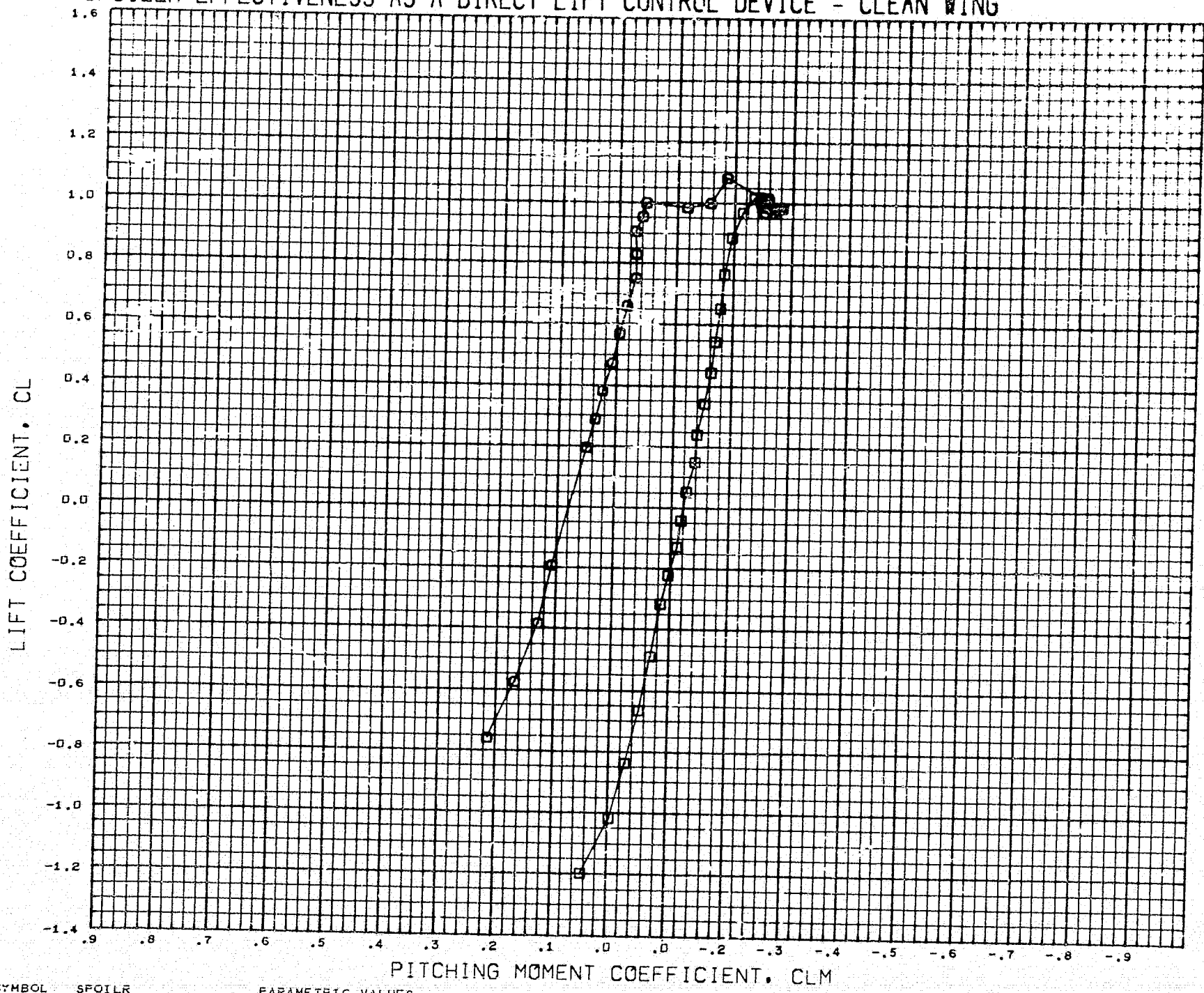
SYMBOL	SPOILR		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	0.000
		AILRON	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING



SYMBOL	SPOILR		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	0.000
		AILRON	0.000		

DATA HIST. CODE V÷E÷AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

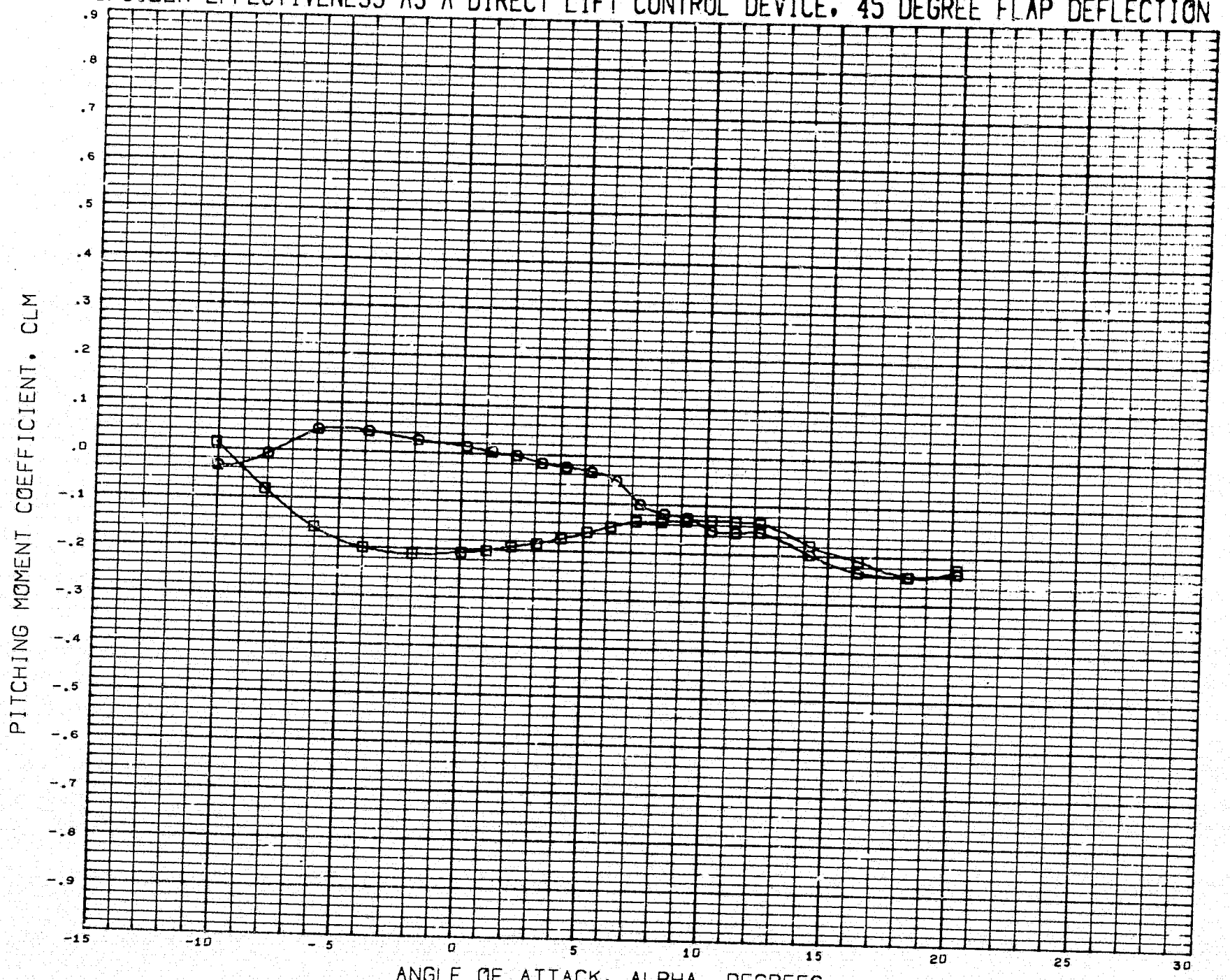
SYMBOL	SPOILR		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	45.000
		AILRON	0.000	SP-L	0.000
		SP-R	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE. 45 DEGREE FLAP DEFLECTION



SYMBOL	SPOILR
○	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	45.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

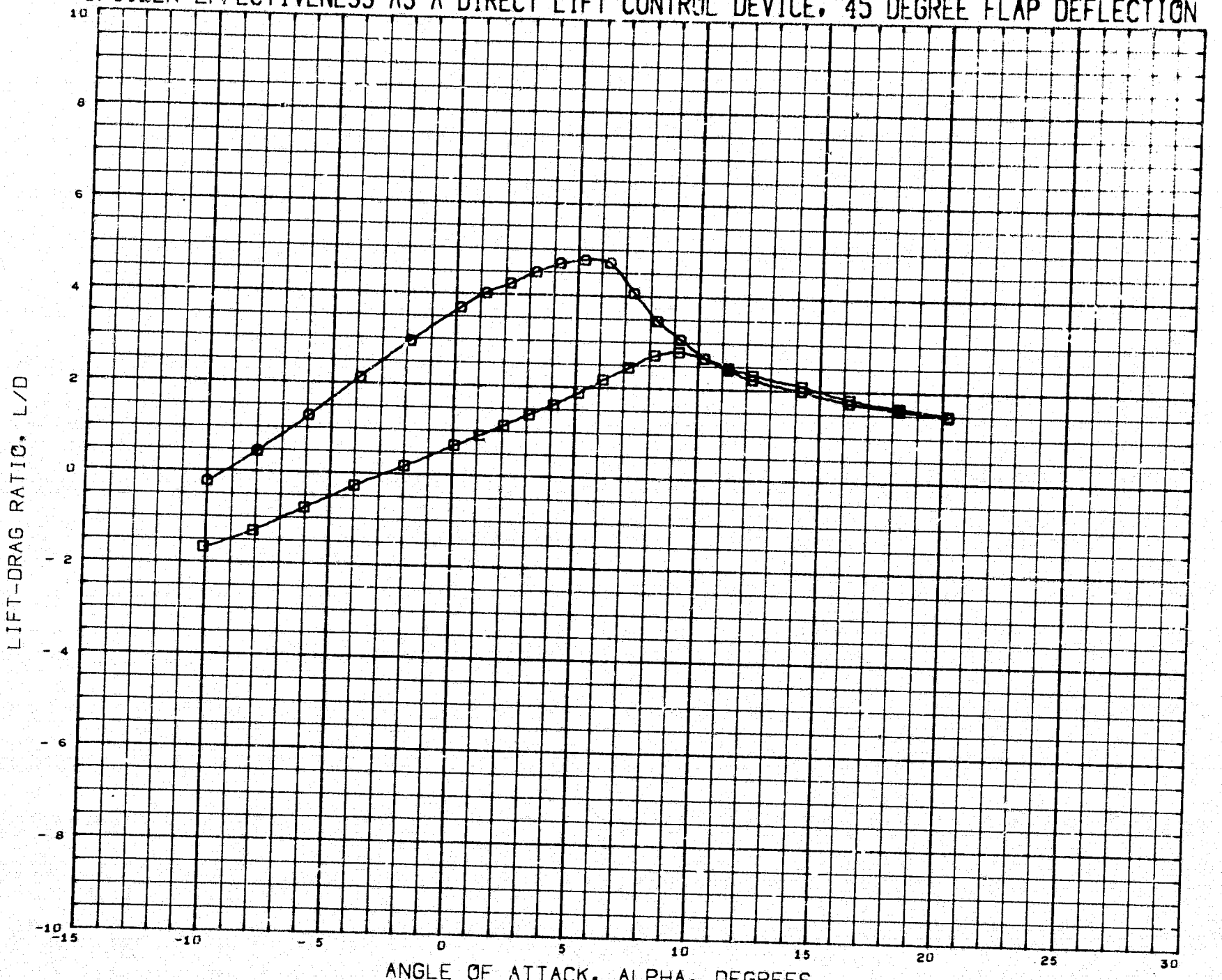
DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1F2G

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	-5.000	FLAP	45.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1F2G.

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

SYMBOL	SPOILR		PARAMETRIC VALUES		
□	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	45.000
		AILRON	0.000	SP-L	0.000
		SP-R	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	45.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5150	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

SYMBOL	SFCILR
O	0.000
□	60.000

PARAMETRIC VALUES

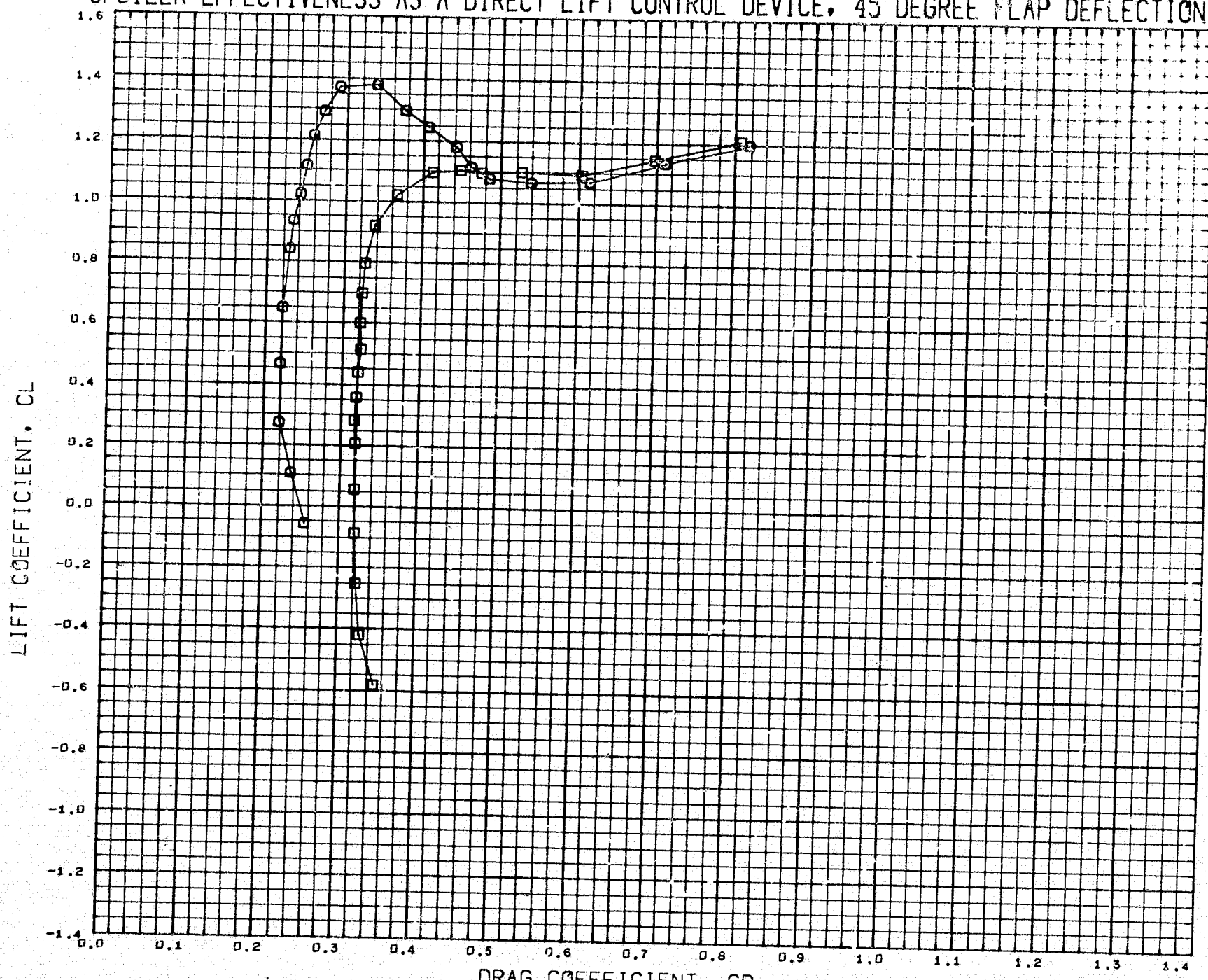
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	45.000
AILRON	0.000	SF-L	0.000
SF-R	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	45.000
AILRON	0.000	SP-L	0.000
SP-R	0.000		

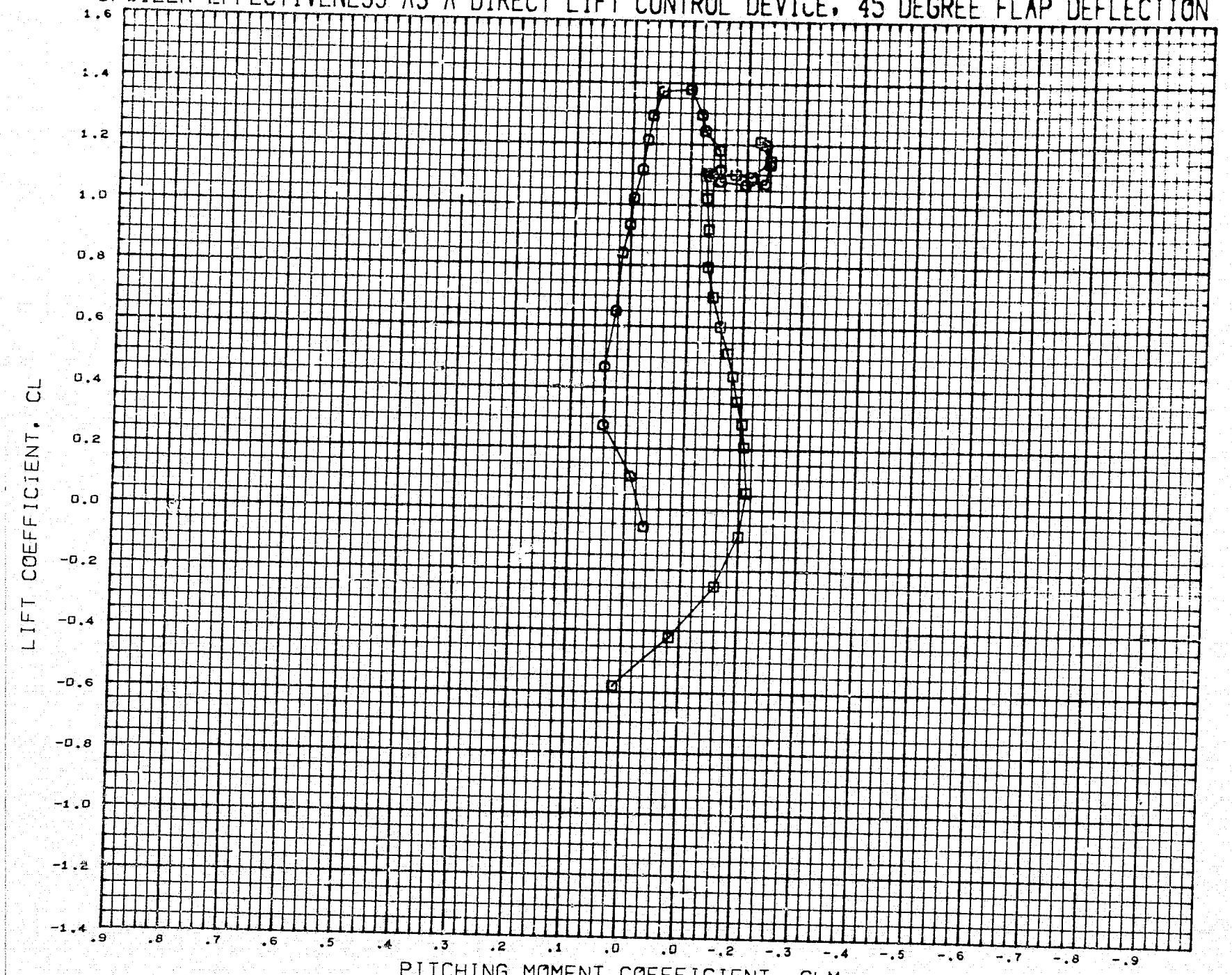
DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1F2G

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION



SYMBOL	SPOILR
O	0.000
□	60.000

PARAMETRIC VALUES

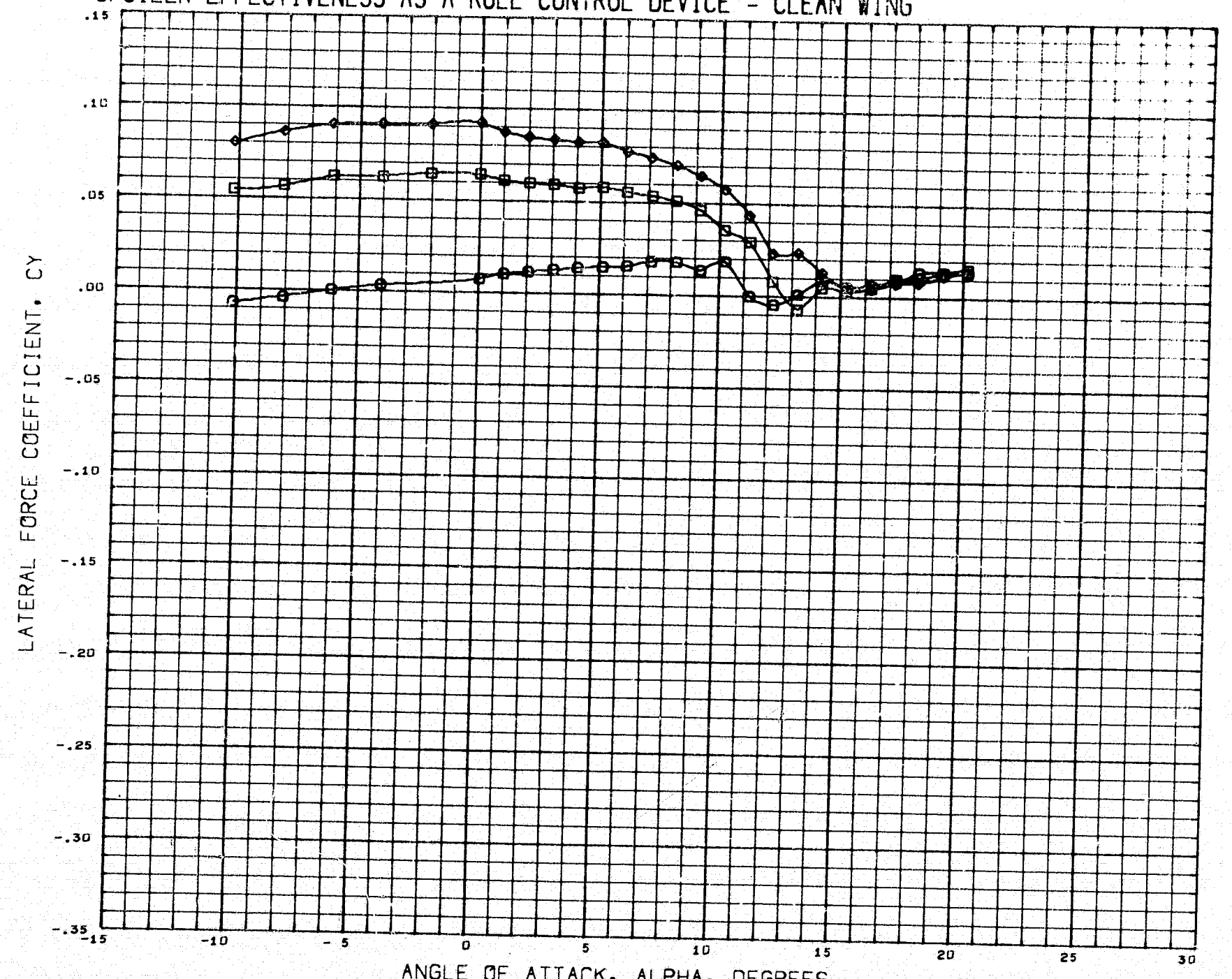
ELEVTR		0.000	BETA		0.000
HTAIL	-	5.000	FLAP		45.000
AILRON		0.000	SP-L		0.000
SP-R		0.000			

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - CLEAN WING



SYMBOL	SP-L		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	- 5.000	FLAP	0.000
◇	60.000	AILRCN	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

4.0 PC 01 LSWT 237 B4W2V1H1

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - CLEAN WING

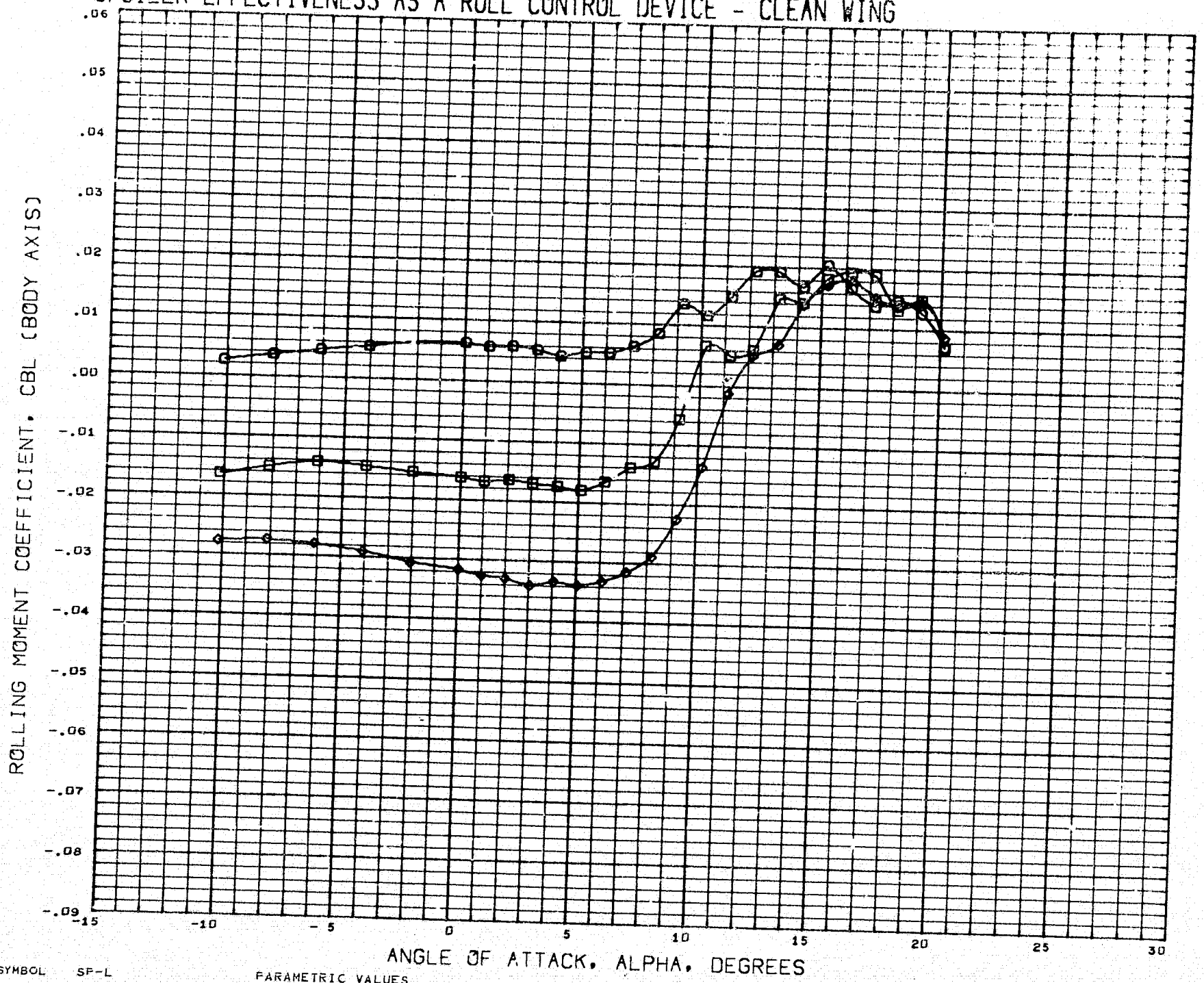
SYMBOL	SP-L		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	- 5.000	FLAP	0.000
◇	60.000	AILRON	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - CLEAN WING



SYMBOL	SP-L		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	- 5.000	FLAP	0.000
◇	60.000	AILRON	0.000	SP-R	0.000

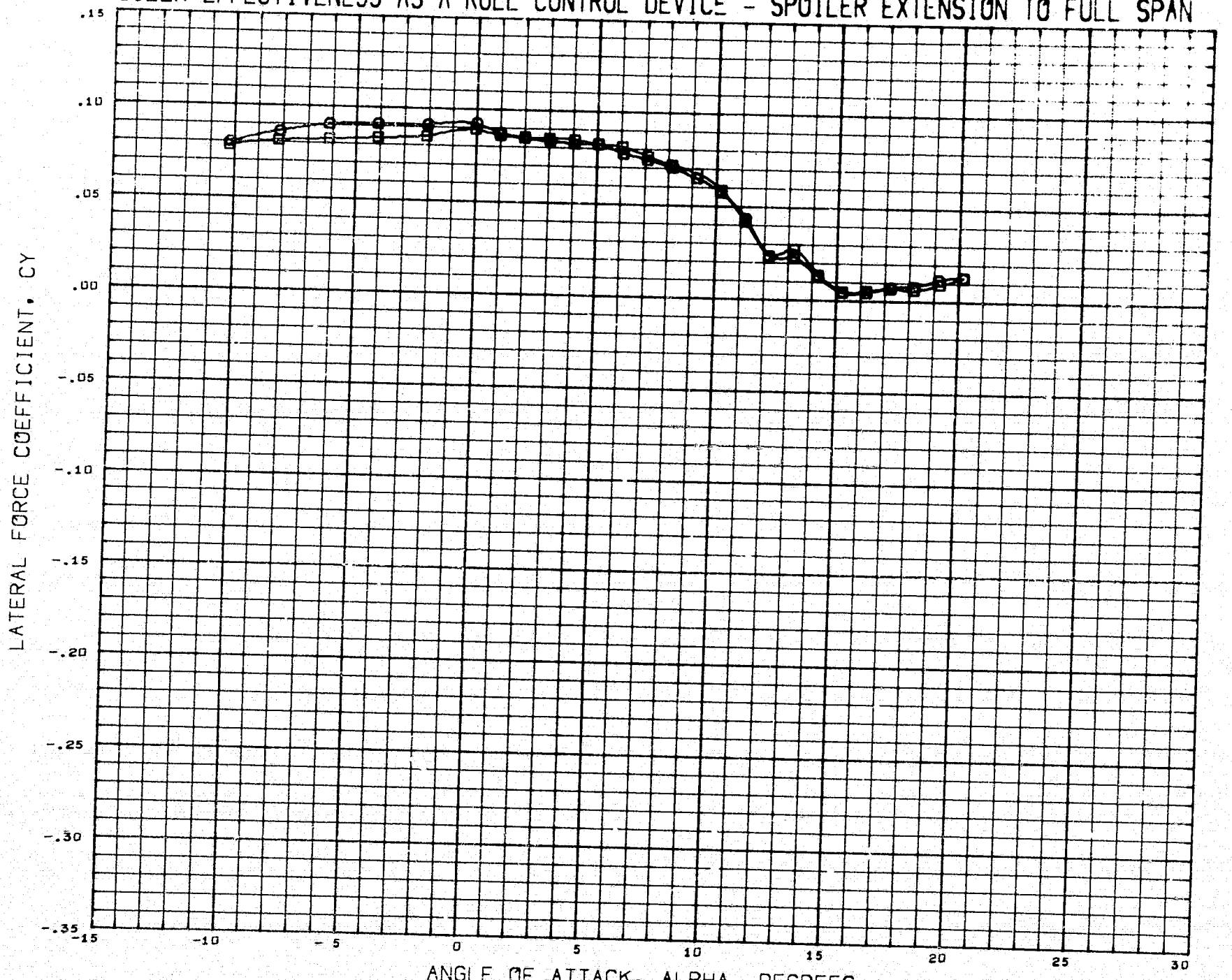
DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - SPOILER EXTENSION TO FULL SPAN



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCD910)	○	4.0 PC 01 LSWT 237 B4W2V1H1SP2 (RH=0)
(BCD911)	□	4.0 PC 01 LSWT 237 B4W2V1H1SP3 (RH=0)

PARAMETRIC VALUES

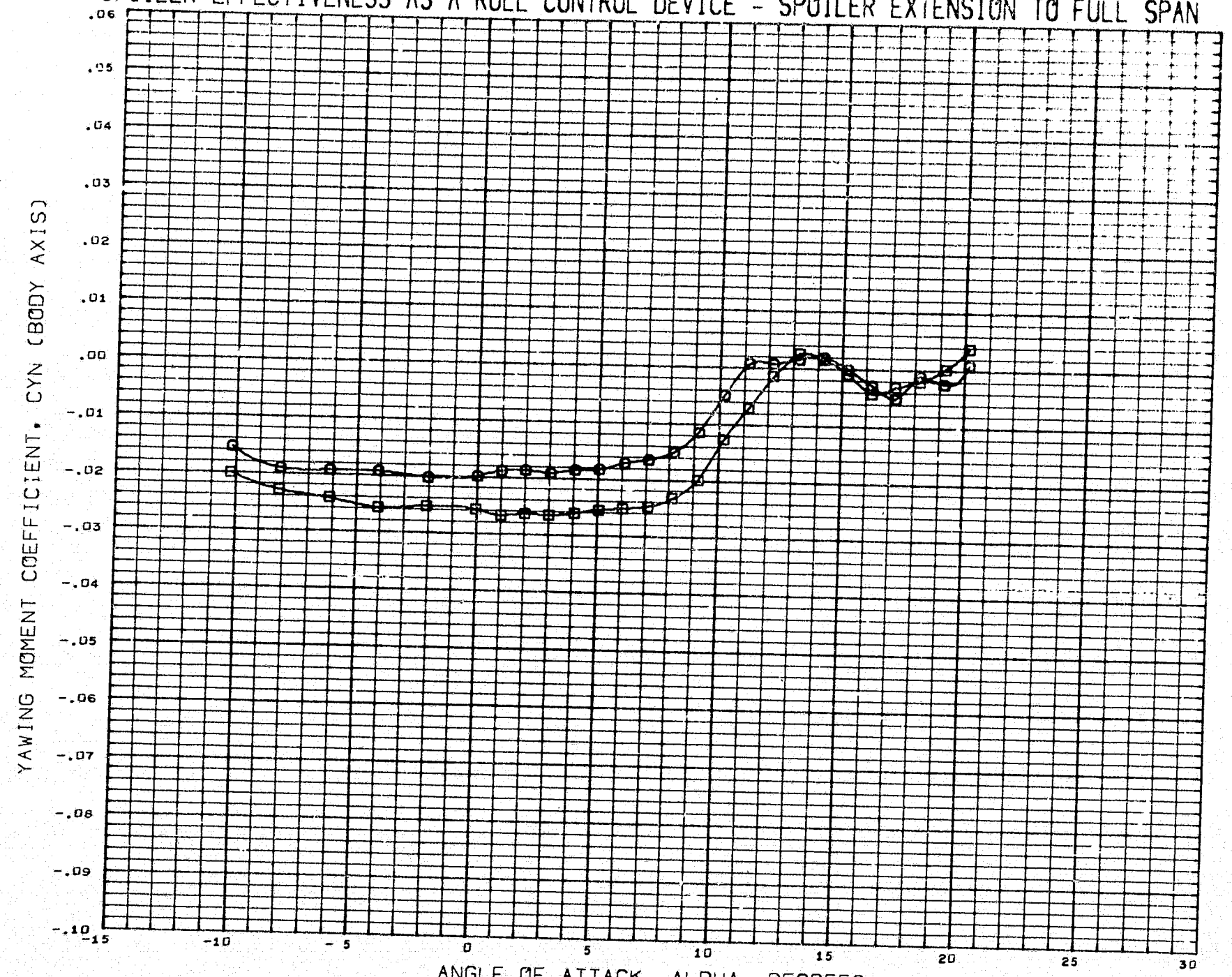
BETA	0.000	HTAIL	- 5.000
FLAP	0.000	RUDDER	0.000
SP-L	60.000	SP-R	0.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.770	SQ. IN
RCFL	6.5110	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - SPOILER EXTENSION TO FULL SPAN



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD910)	O	4.0 FC 01 LSWT 237 B4W2V1H1SP2 (RH=0)
(BCD911)	□	4.0 FC 01 LSWT 237 B4W2V1H1SP3 (RH=0)

ELEVTR 0.000

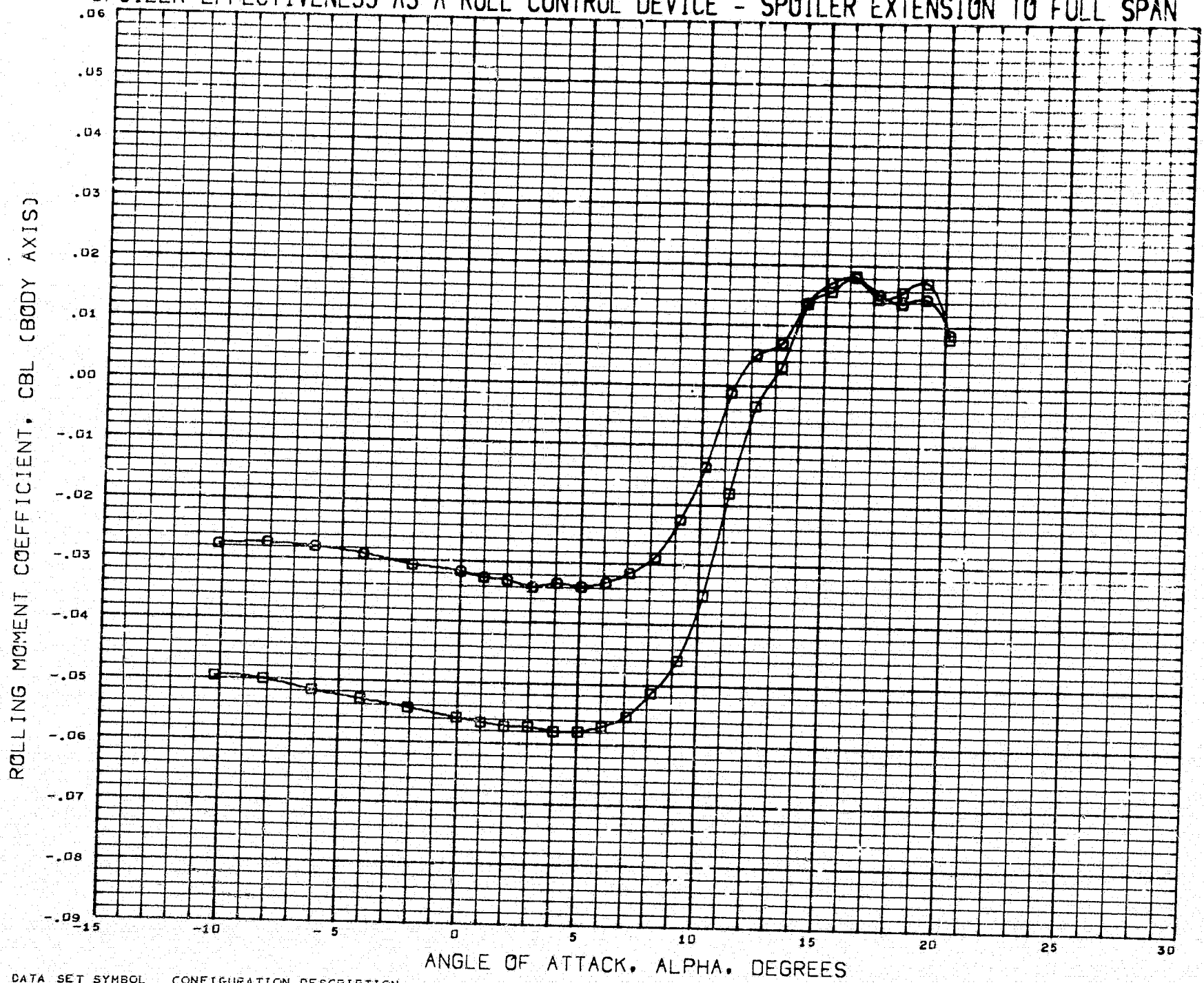
PARAMETRIC VALUES

BETA	0.000	HTAIL	-5.000
FLAP	0.000	RUDDER	0.000
SP-L	60.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	56.3800	IN.
XMRP	37.0400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - SPOILER EXTENSION TO FULL SPAN



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD910)	○	4.0 FC 01 LSWT 237 B4W2V1H1SP2 (RH=0)
(BCD911)	□	4.0 FC 01 LSWT 237 B4W2V1H1SP3 (RH=0)

PARAMETRIC VALUES

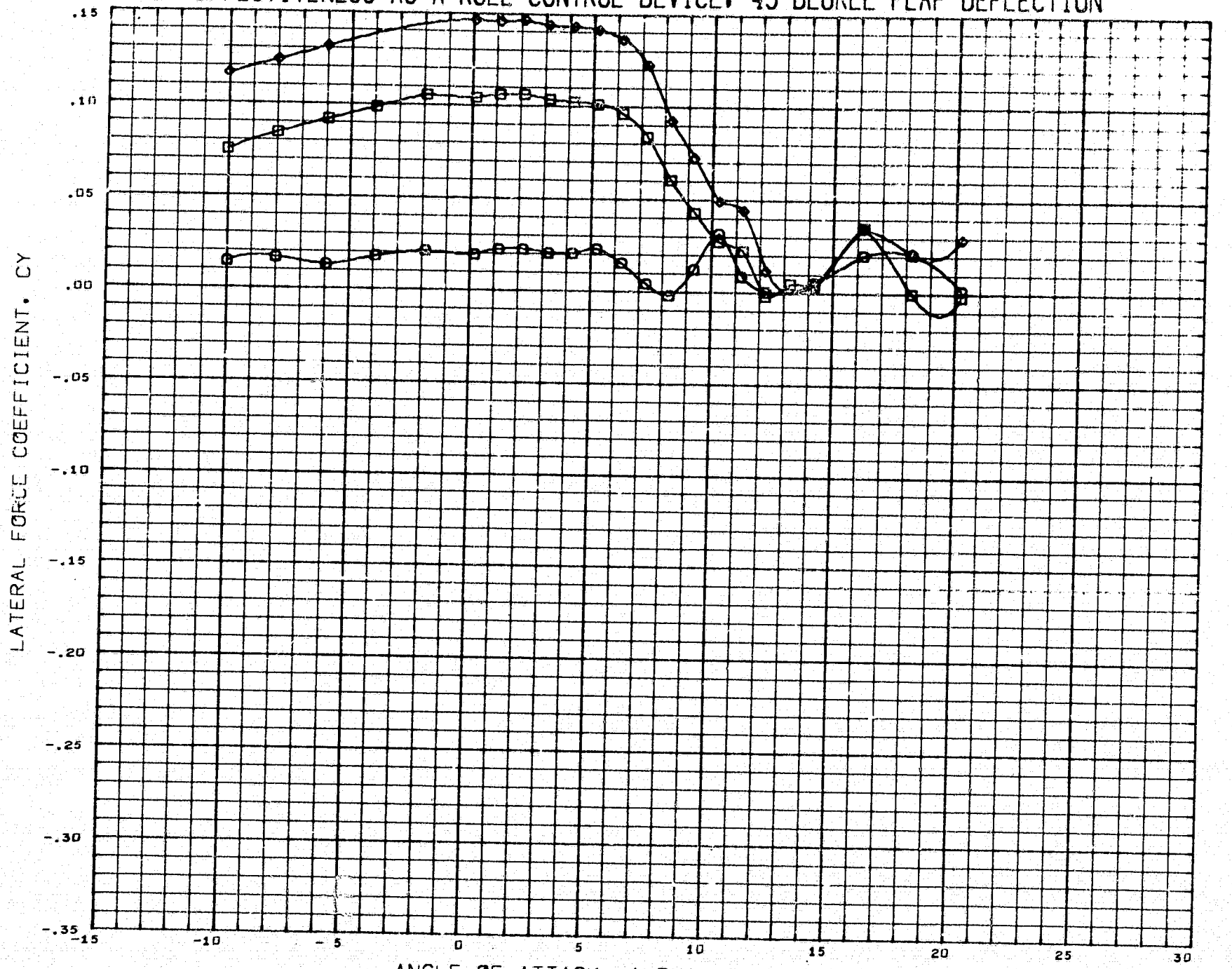
BETA	0.000	HTAIL -	5.000
FLAP	0.000	RUDDER	0.000
SP-L	60.000	SP-R	0.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5101	IN.
REFB	55.3800	IN.
XMRP	37.5400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE. 45 DEGREE FLAP DEFLECTION



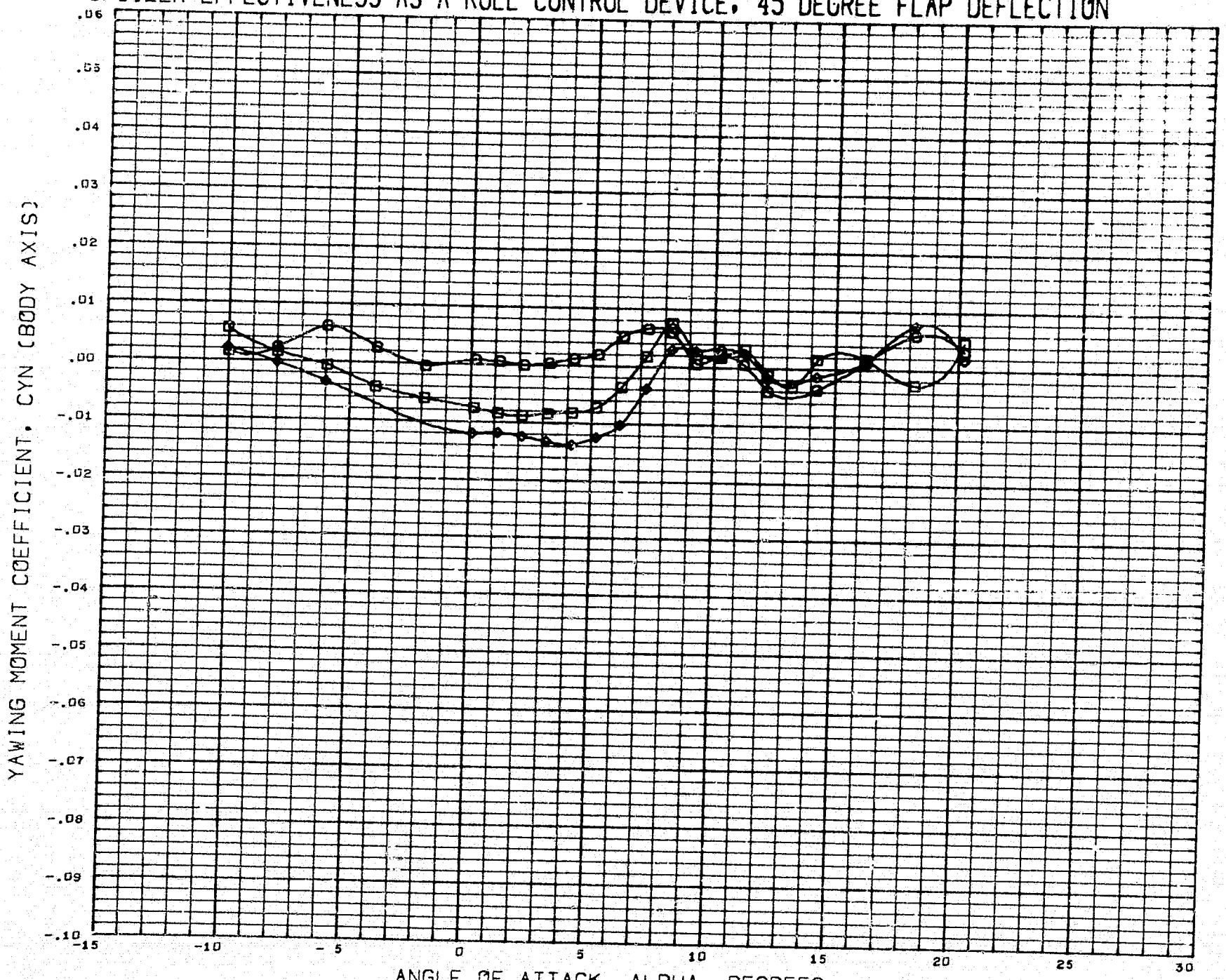
SYMBOL	SP-L		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	- 5.000	FLAP	45.000
◇	60.000	AILRON	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFS	55.3900	IN.
XMRF	37.9400	IN.
YMRF	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION



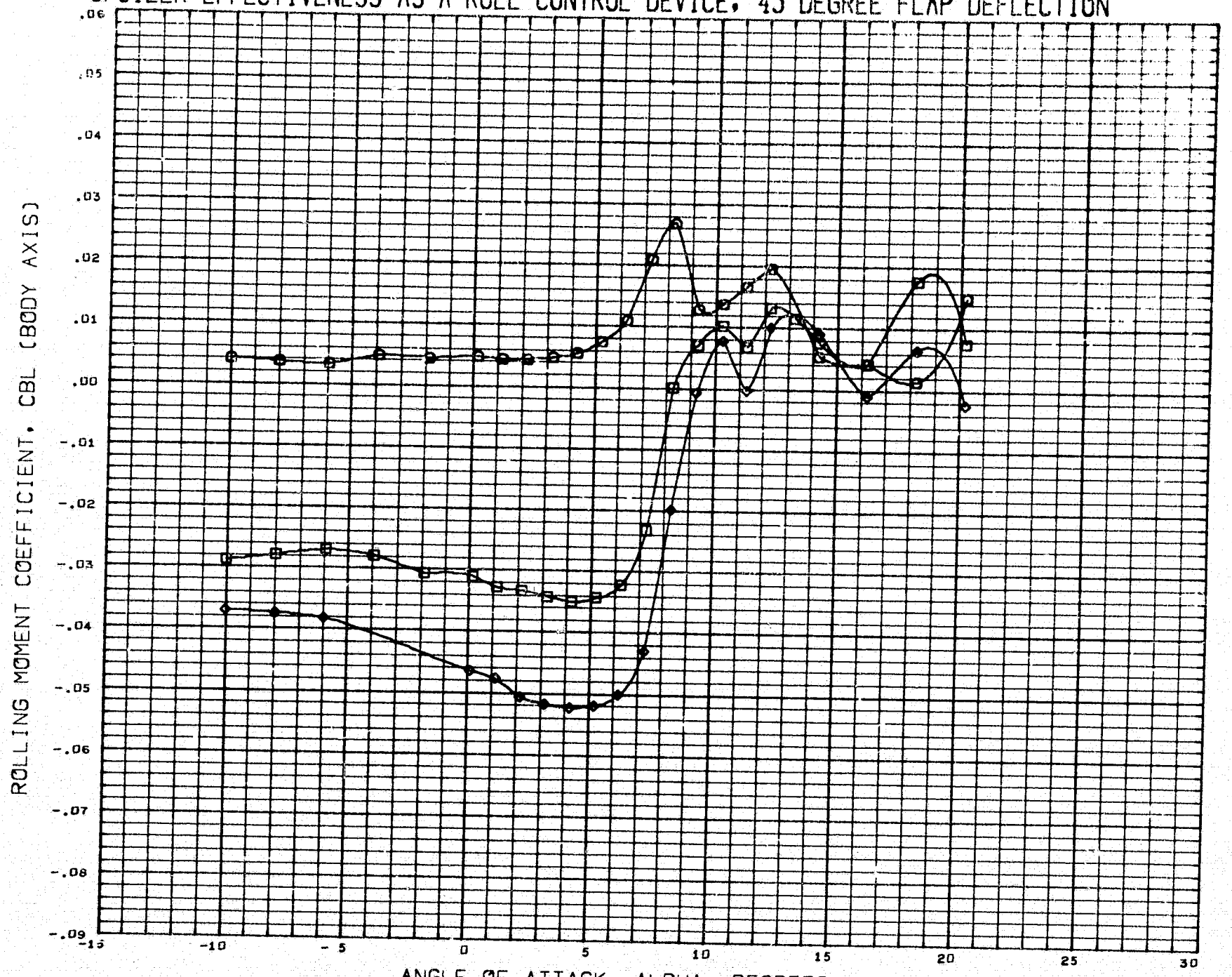
SYMBOL	SP-L		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	5.000	FLAP	45.000
◇	60.000	AILRON	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION



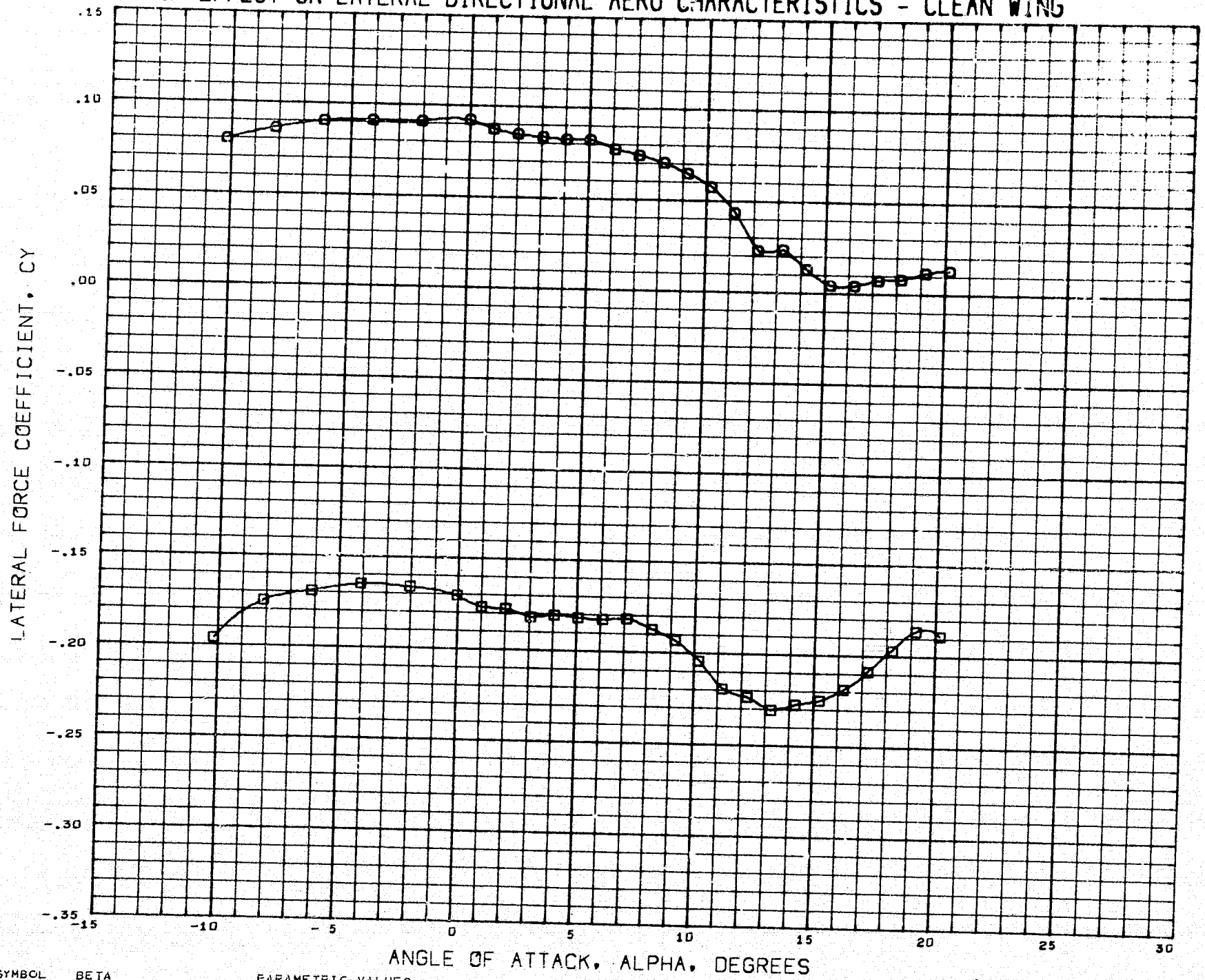
SYMBOL	SP-L	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	BETA	0.000
□	30.000	HTAIL	- 5.000	FLAP	45.000
◇	60.000	AILRON	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING



SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

ELEVTR	0.000	HTAIL	-	5.000
FLAP	0.000	RUDDER		0.000
SP-L	60.000	SP-R		0.000

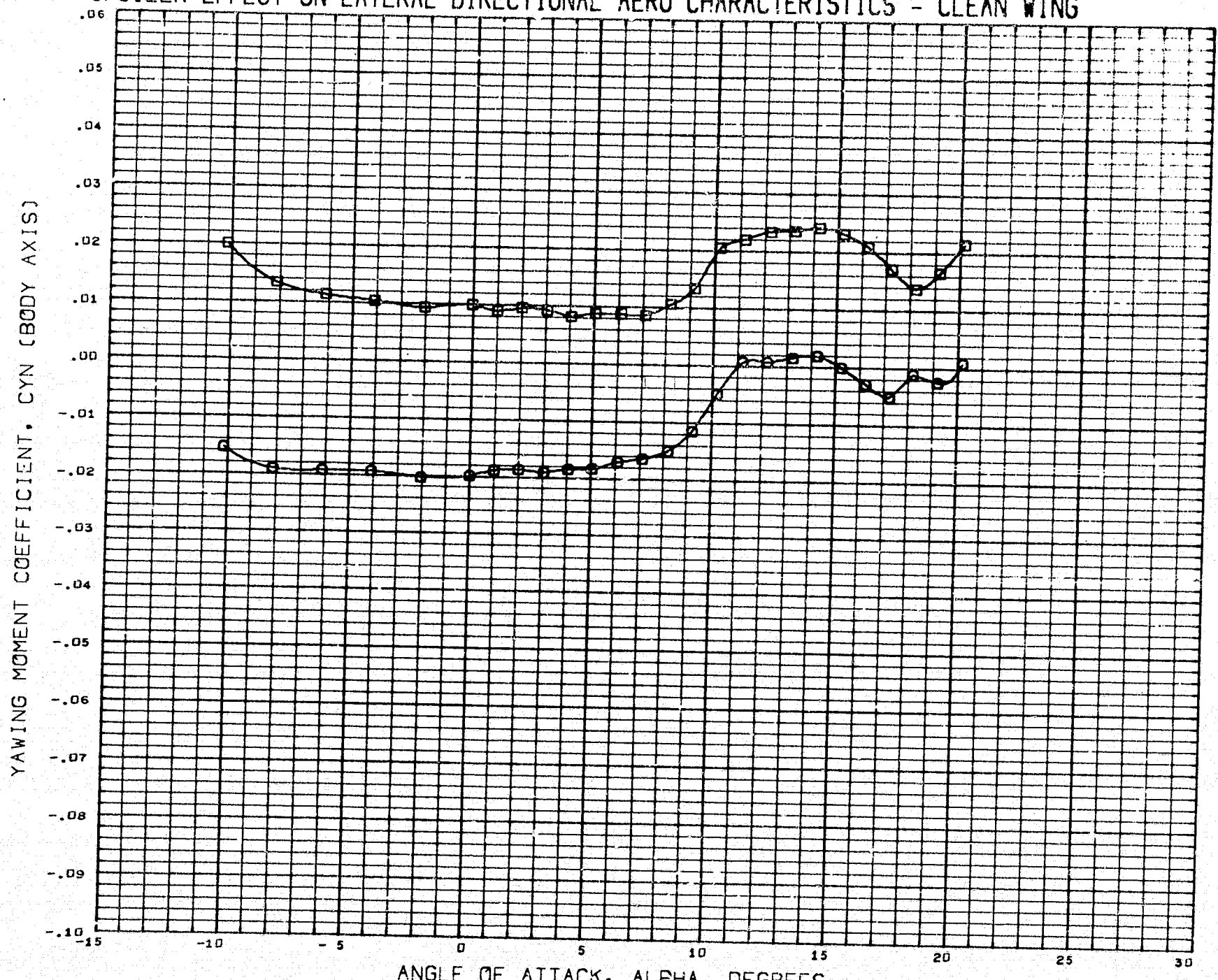
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.3100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1SP2 (RH=0)

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	FLAP	0.000	RUDDER	0.000
		SP-L	60.000	SP-R	0.000

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING

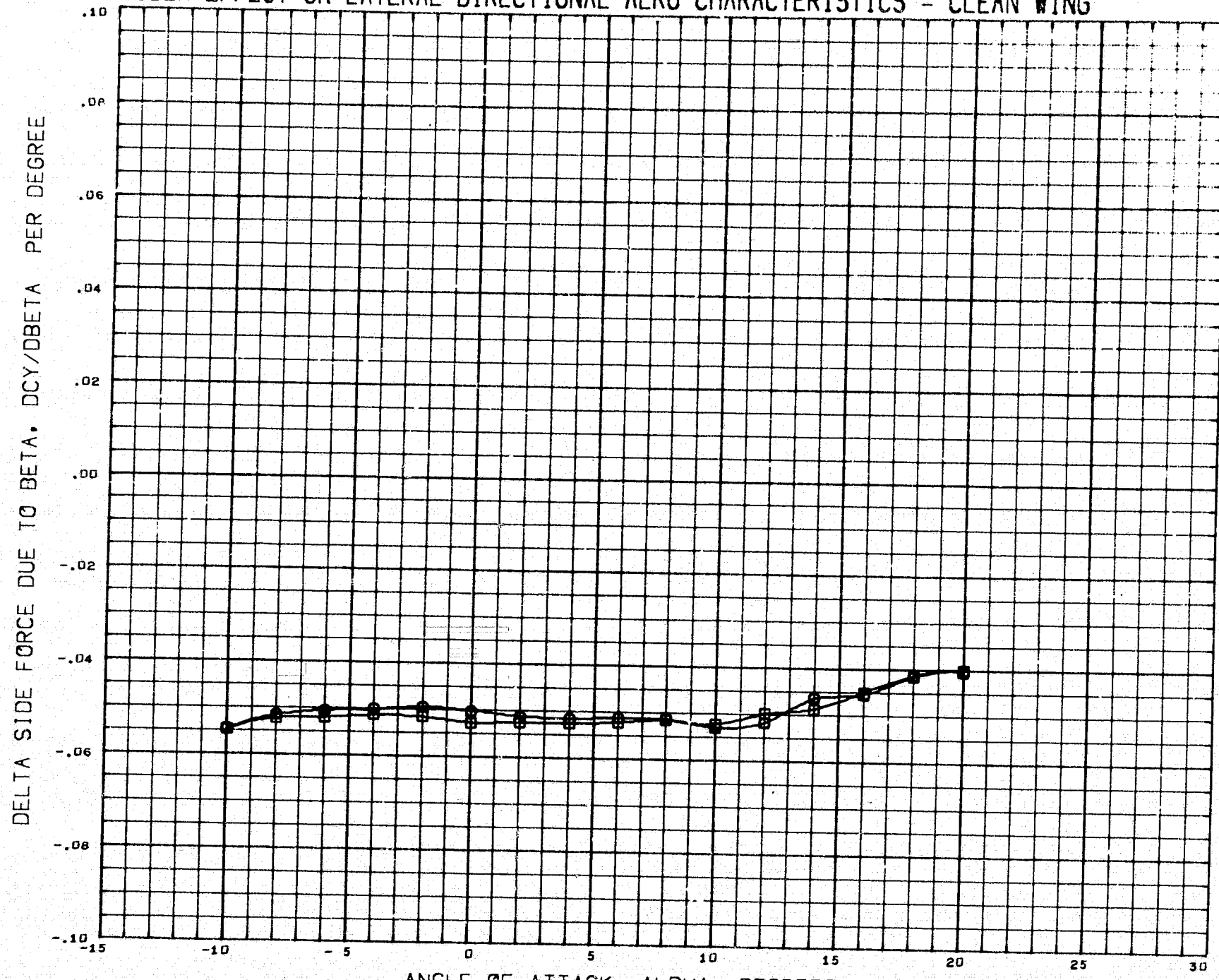
SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	-5.000
□	5.000	FLAP	0.000	RUDDER	0.000
		SP-L	60.000	SP-R	0.000

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9403	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING



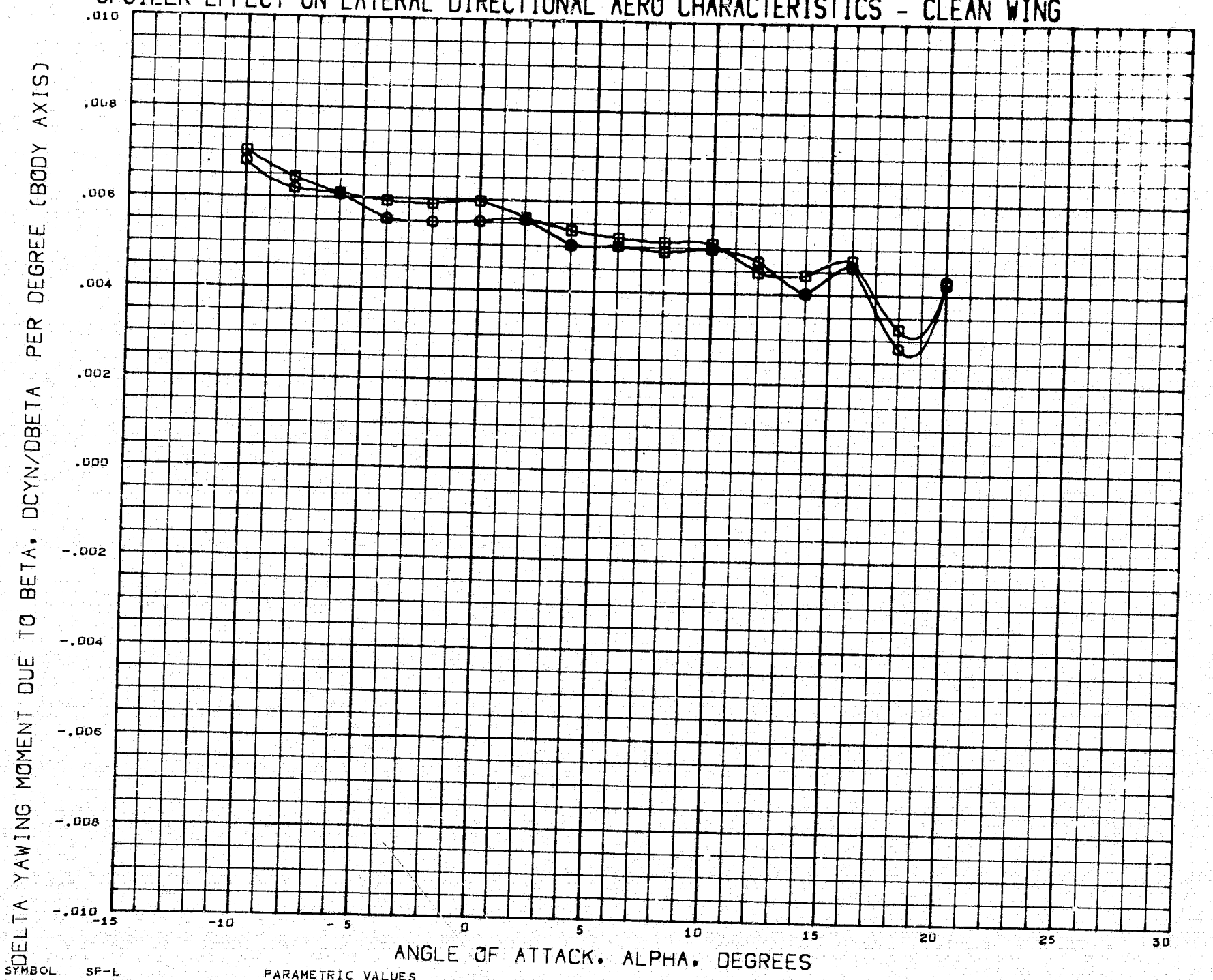
SYMBOL	SP-L	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	60.000	HTAIL	- 5.000	FLAP	0.000
		SPOILR	0.000	AILRON	0.000
		SP-R	0.000		

DATA HIST. CODE *PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFD	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING



SYMBOL	SP-L
□	0.000
○	60.000

PARAMETRIC VALUES

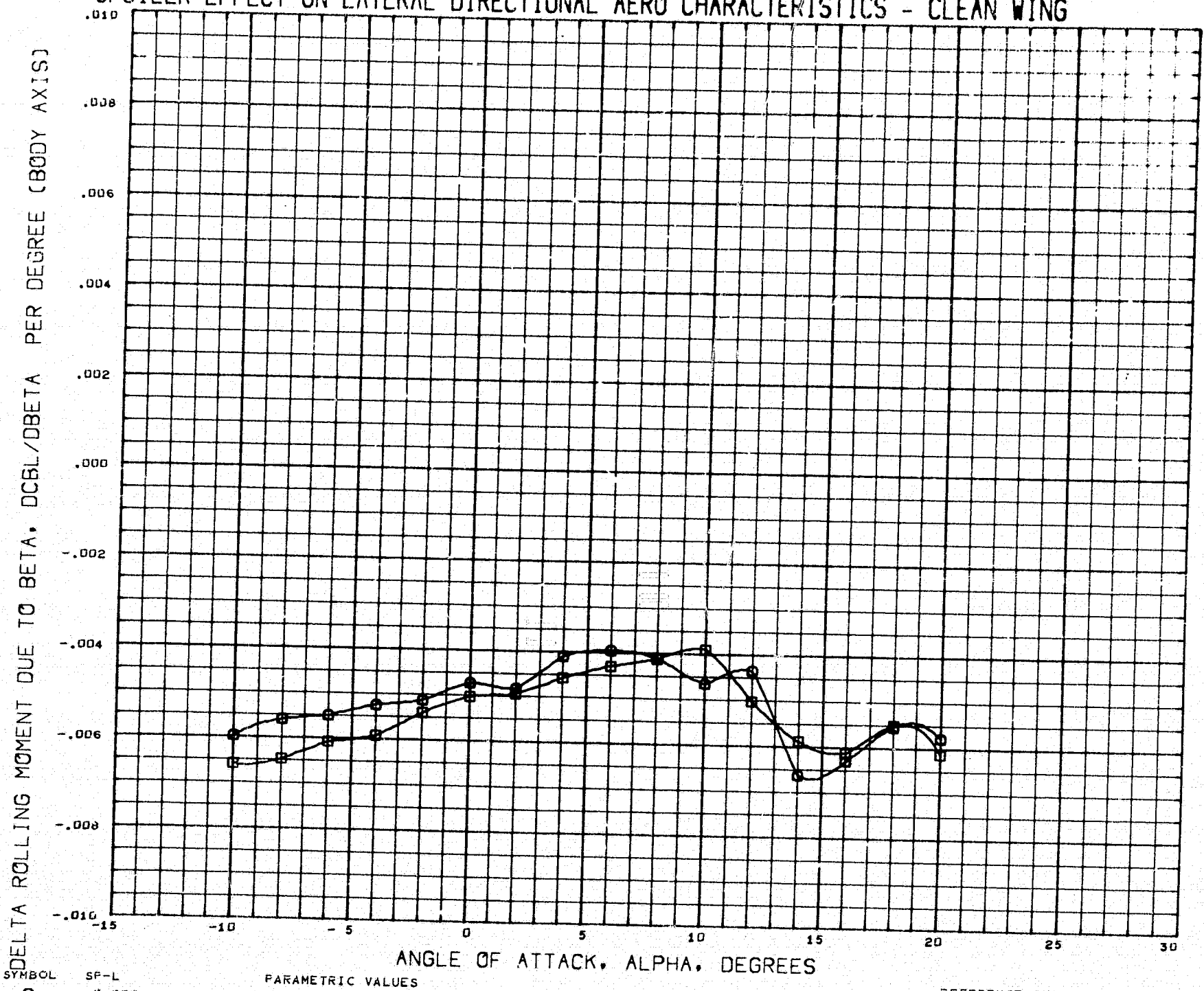
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	0.000
SPOILR	0.000	AILRON	0.000
SP-R	0.000		

DATA HIST. CODE *PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING



SYMBOL	SP-L				
□	0.000	ELEVTR	0.000	BETA	0.000
O	60.000	HTAIL	- 5.000	FLAP	0.000
		SPOILR	0.000	AILRON	0.000
		SP-R	0.000		

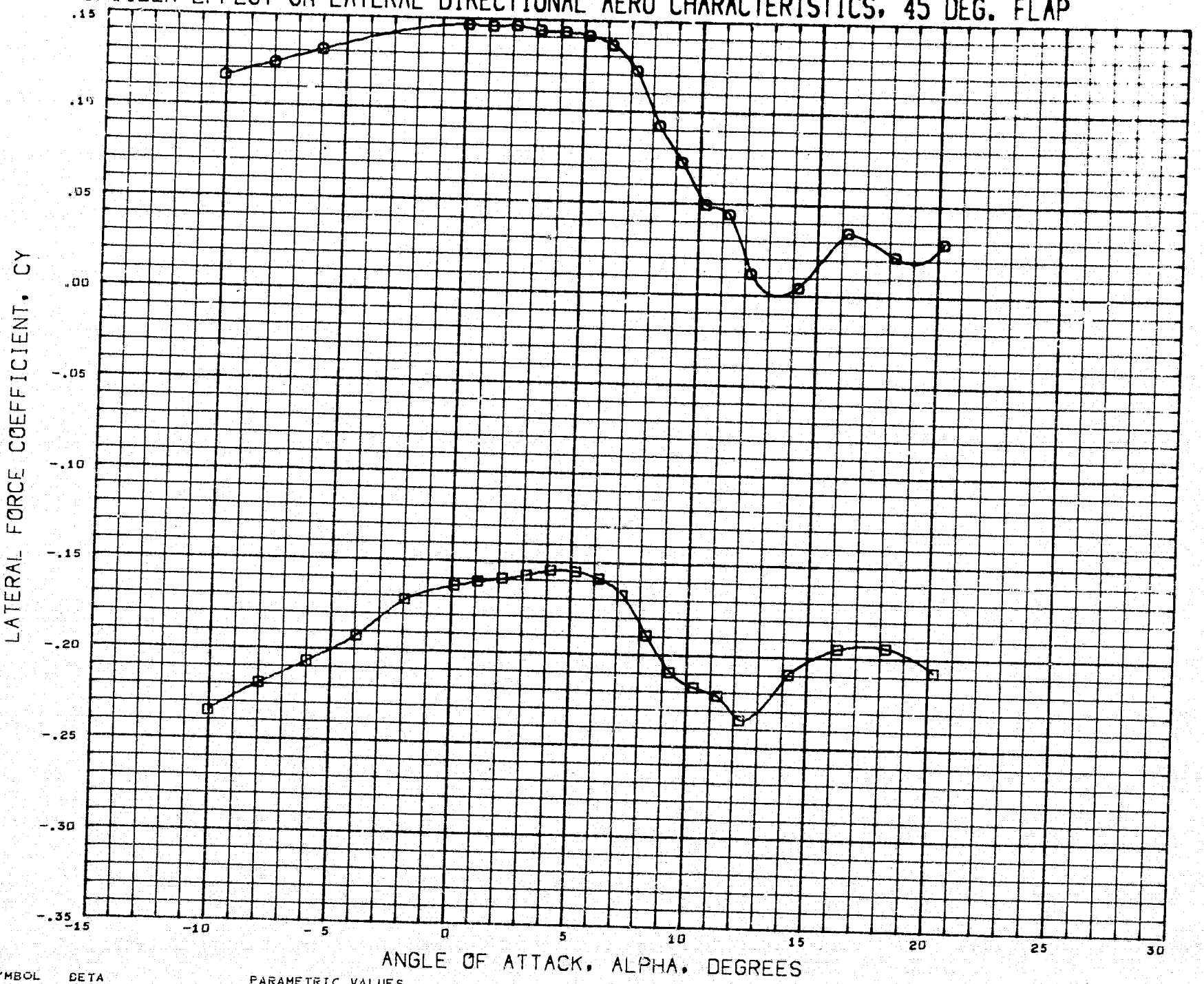
PARAMETRIC VALUES

DATA HIST. CODE #PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP



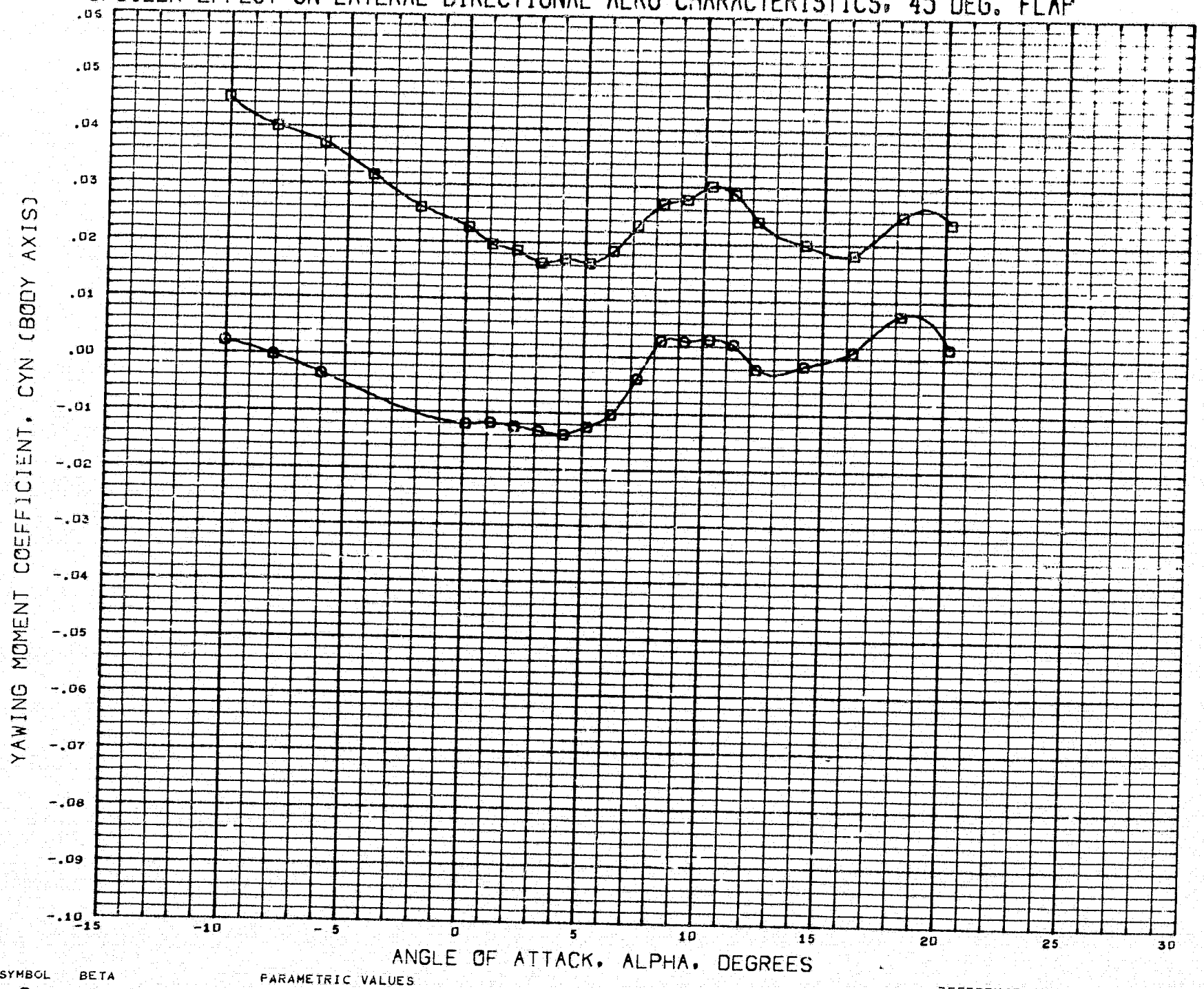
SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	-5.000
□	5.000	FLAP	45.000	RUDDER	0.000
		SP-L	60.000	SP-R	0.000

DATA HIST. CODE V≠E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9409	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP



SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

ELEVTR	0.000	HTAIL	- 5.000
FLAP	45.000	RUDDER	0.000
SF-L	60.000	SF-R	0.000

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS. 45 DEG. FLAP

SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

ELEVTR	0.000	HTAIL	- 5.000
FLAP	45.000	RUDDER	0.000
SP-L	60.000	SP-R	0.000

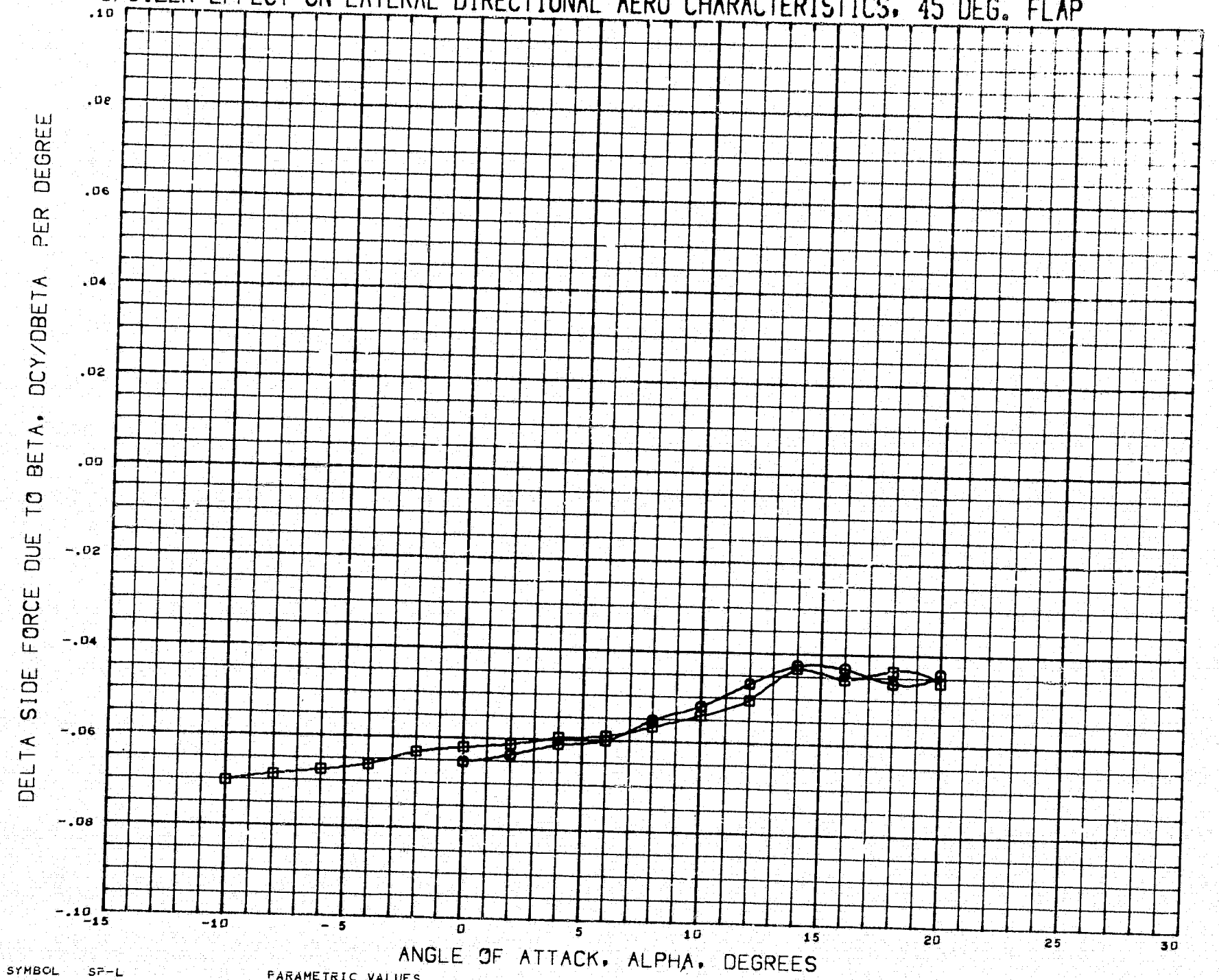
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PERCEN

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2GSP2 (RH=0)

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS. 45 DEG. FLAP



SYMBOL	SP-L
O	0.000
□	0.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.300	FLAP	45.000
SPOILR	0.000	AILRON	0.000
SP-R	0.000		

DATA HIST. CODE #PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP

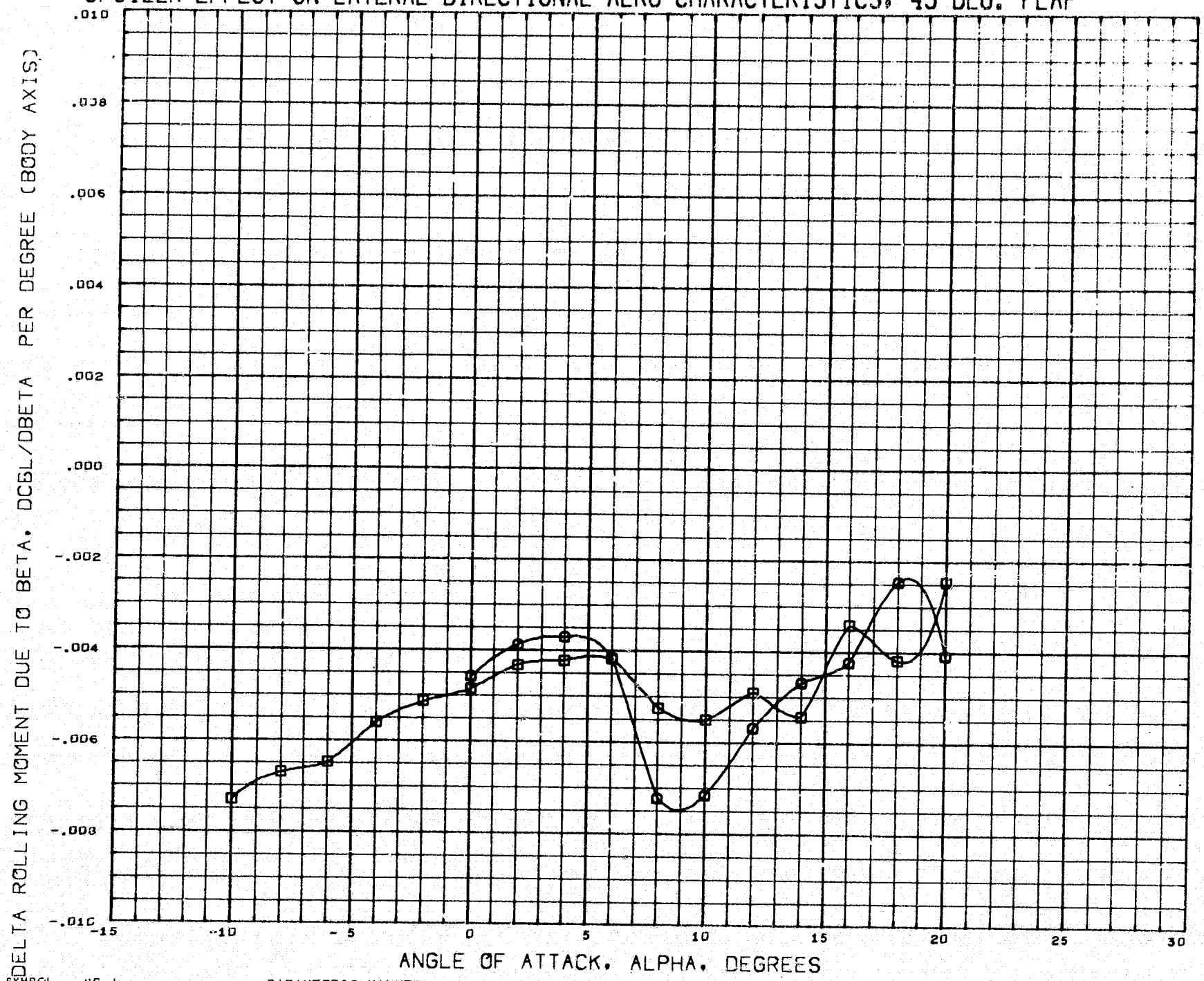
SYMBOL	SF-L		PARAMETRIC VALUES		
□	0.000	ELEVTR	0.000	BETA	0.000
□	0.000	HTAIL	- 5.000	FLAP	45.000
		SPOILR	0.000	AILRON	0.000
		SF-R	0.000		

DATA HIST. CODE *FM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP



SYMBOL	SP-L					
O	0.000	ELEVTR	0.000	BETA	0.000	
□	0.000	HTAIL	-5.000	FLAP	45.000	
		SPOILR	0.000	AILRON	0.000	
		SP-R	0.000			

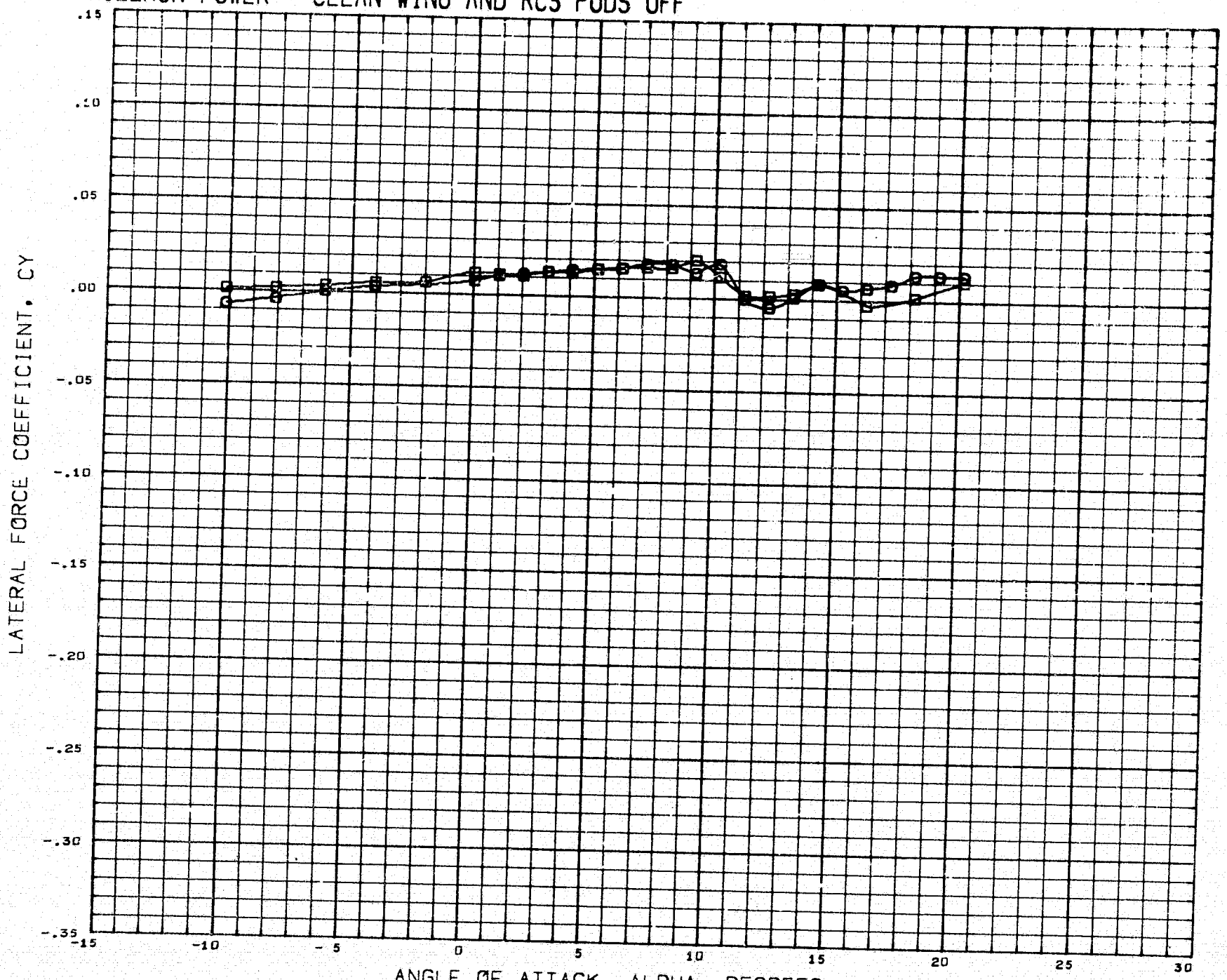
PARAMETRIC VALUES

DATA HIST. CODE #PM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER - CLEAN WING AND RCS PODS OFF



SYMBOL	AILRON
□	0.000
□	20.000

PARAMETRIC VALUES

ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	0.000
SPOILR	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1

AILERON POWER - CLEAN WING AND RCS PODS OFF

SYMBOL	AILRON
O	0.000
□	20.000

PARAMETRIC VALUES

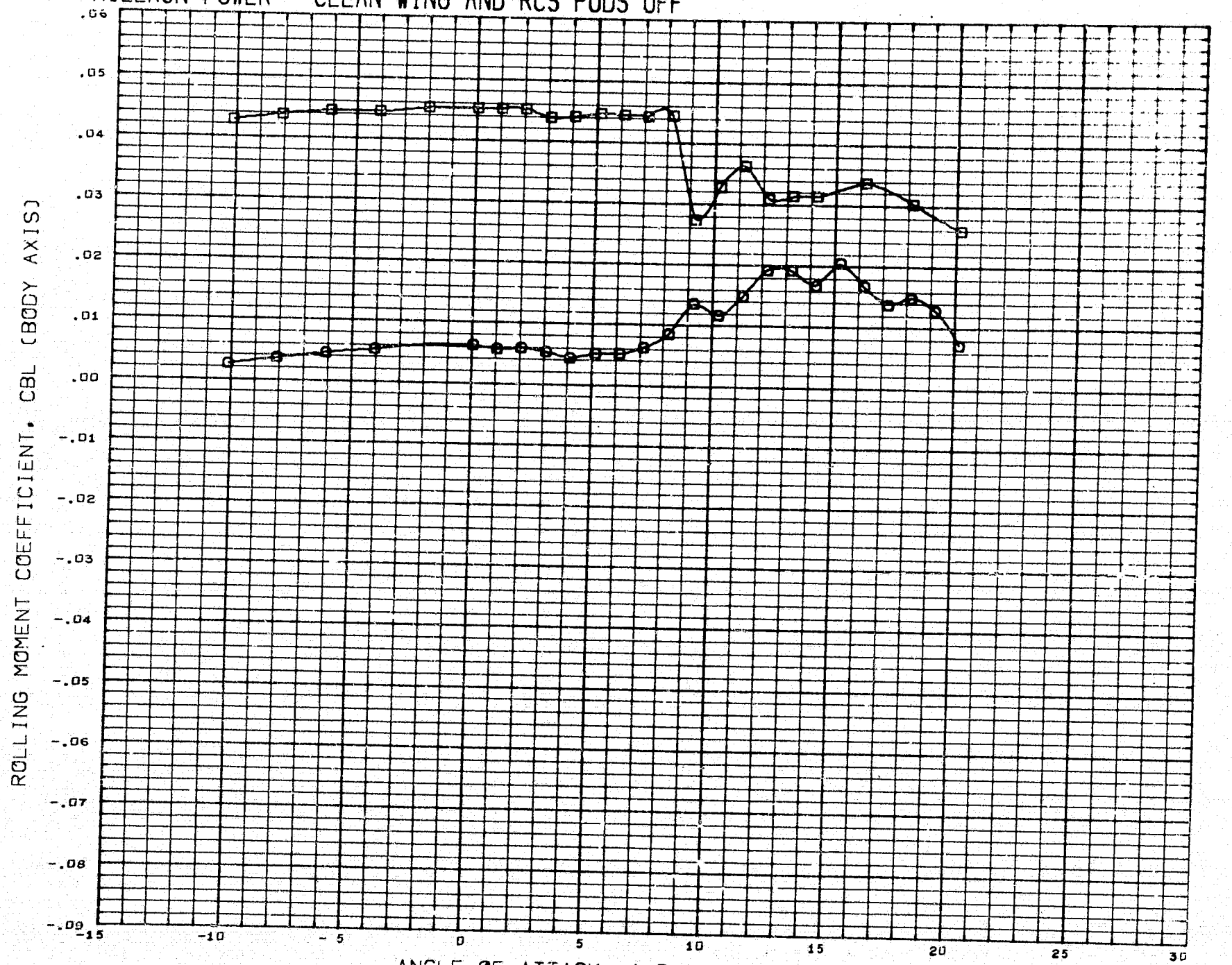
ELEVTR	0.000	BETA	0.000
HTAIL	- 5.000	FLAP	0.000
SPOILR	0.000		

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER - CLEAN WING AND RCS PODS OFF



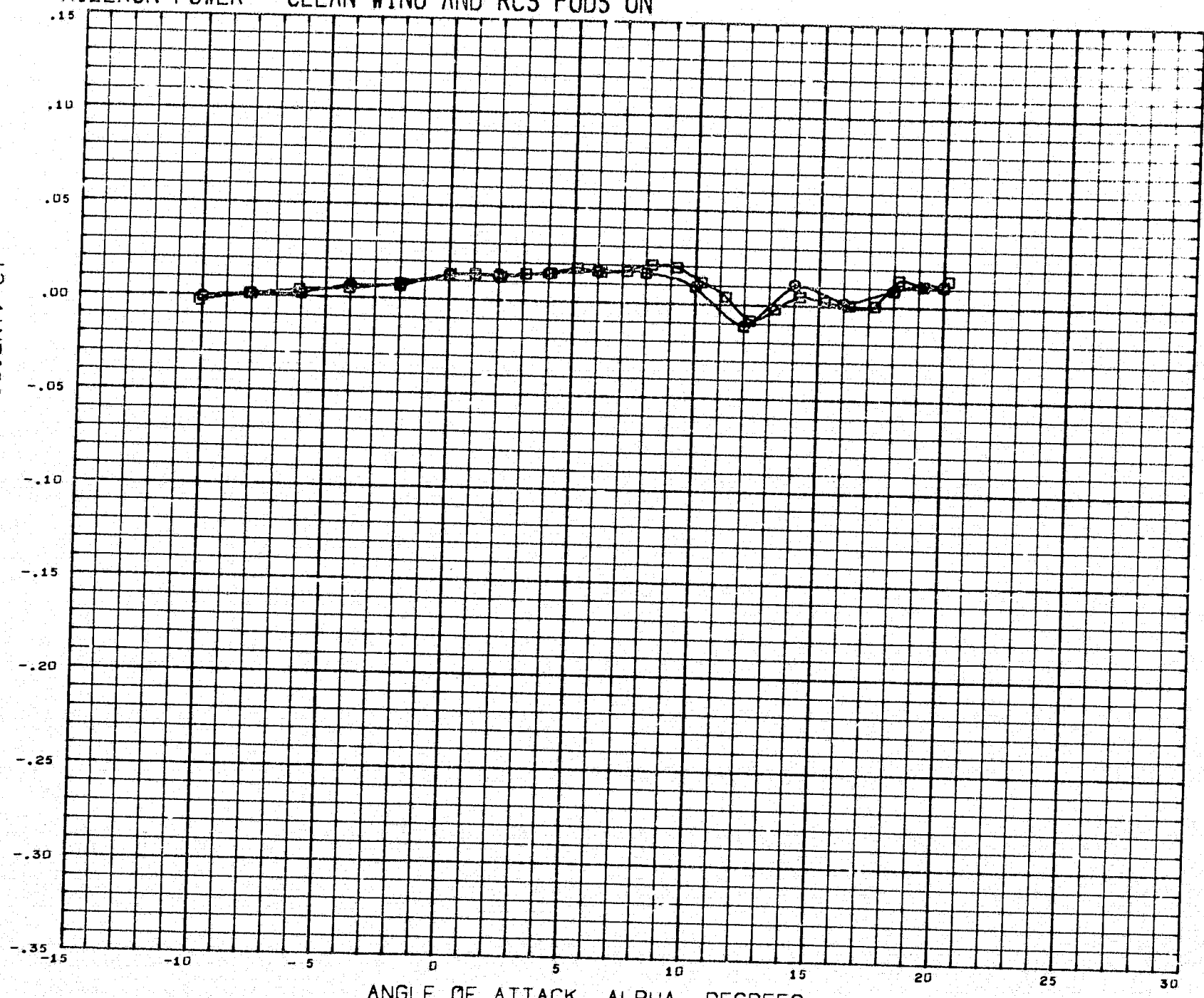
SYMBOL	AILRON		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	FLAP	0.000
		SPOILR	0.000		

DATA HIST. CODE V#E#AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER - CLEAN WING AND RCS PODS ON



SYMBOL	AILRON		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	RUDDER	0.000

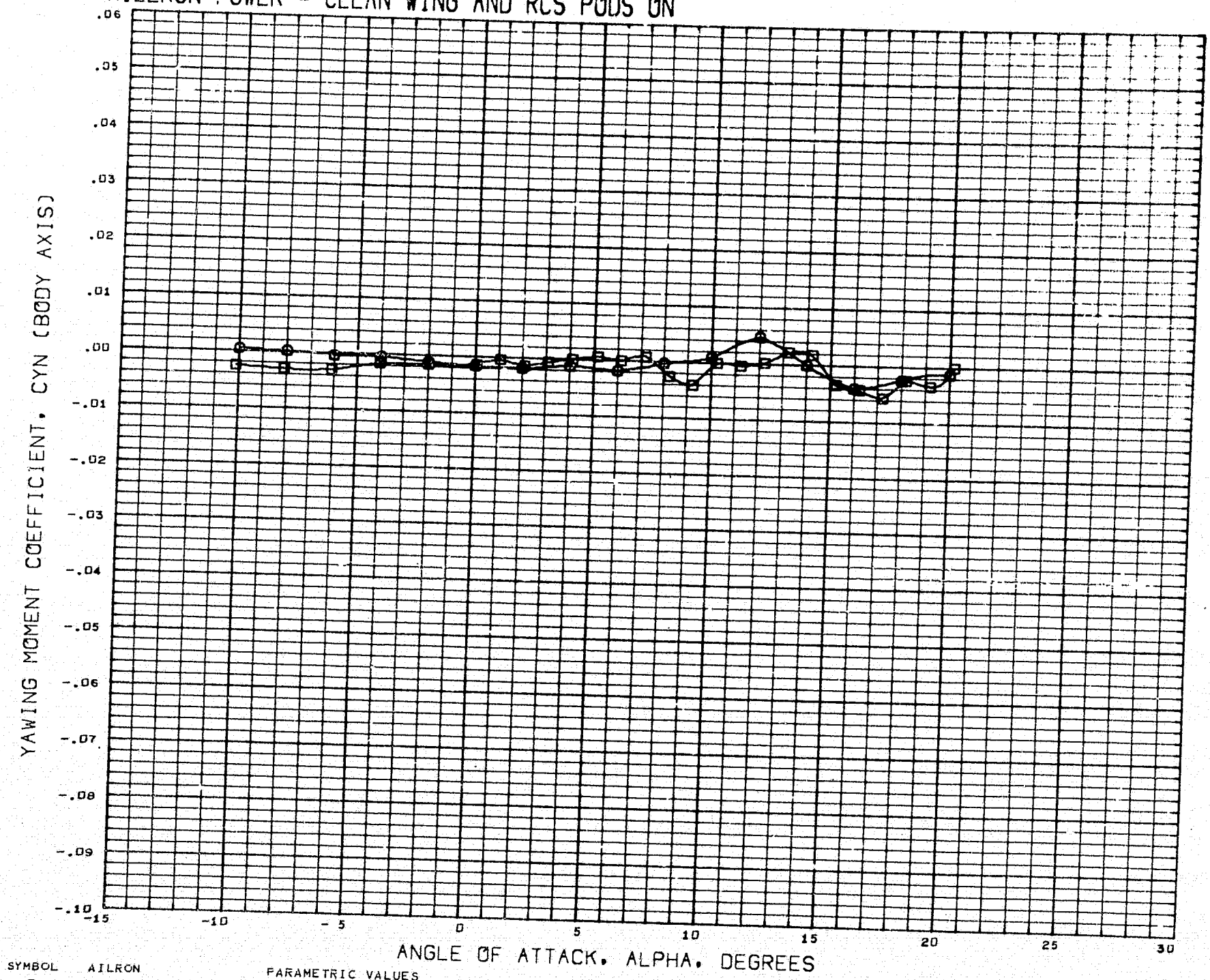
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*EIM

4.0 PC 01 LSWT 237 B4W2V1H1N1A2

AILERON POWER - CLEAN WING AND RCS PODS ON



SYMBOL	AILRON	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	RUDDER	0.000

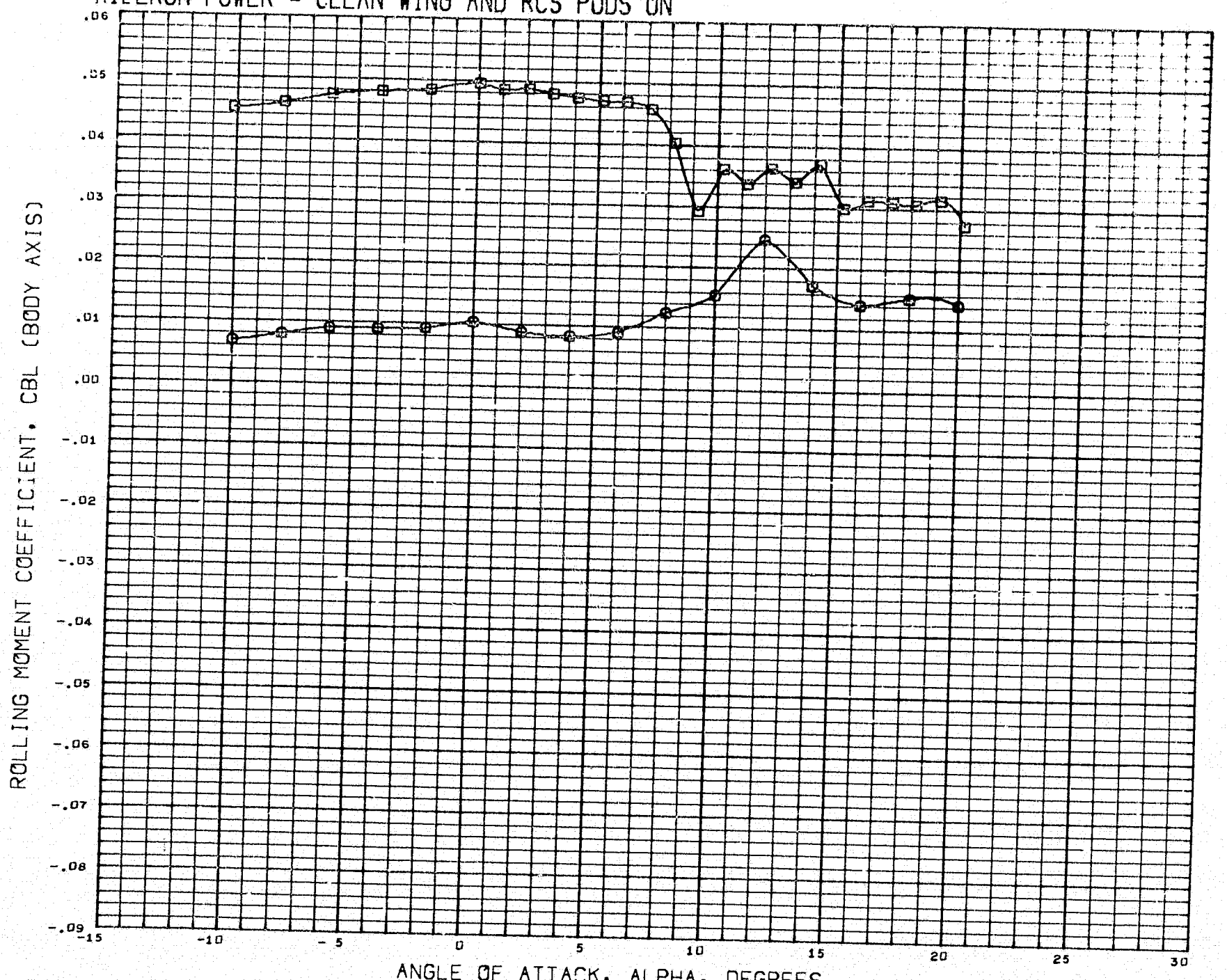
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3300	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#EIM

4.0 PC 01 LSWT 237 B4W2V1H1N1A2

AILERON POWER - CLEAN WING AND RCS PODS ON



SYMBOL	AILRON	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	RUDDER	0.000

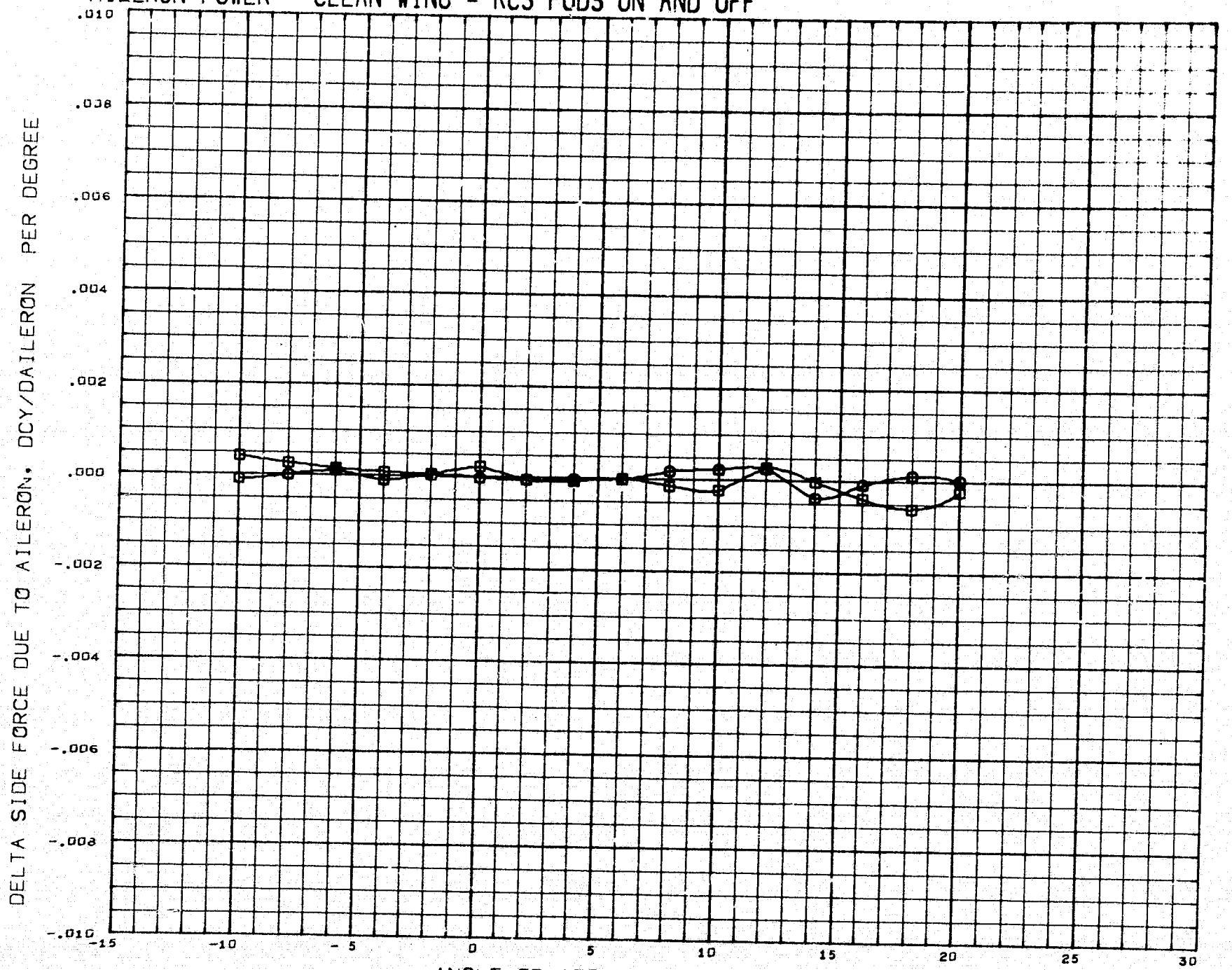
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFS	55.5800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#EIM

4.0 PC 01 LSWT 237 B4W2V1H1N1A2

AILERON POWER - CLEAN WING - RCS PODS ON AND OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA95)	O	4.0 PC 01 LSWT 237 B4W2V1H1N1A2
(YCDA04)	□	4.0 PC 01 LSWT 237 B4W2V1H1

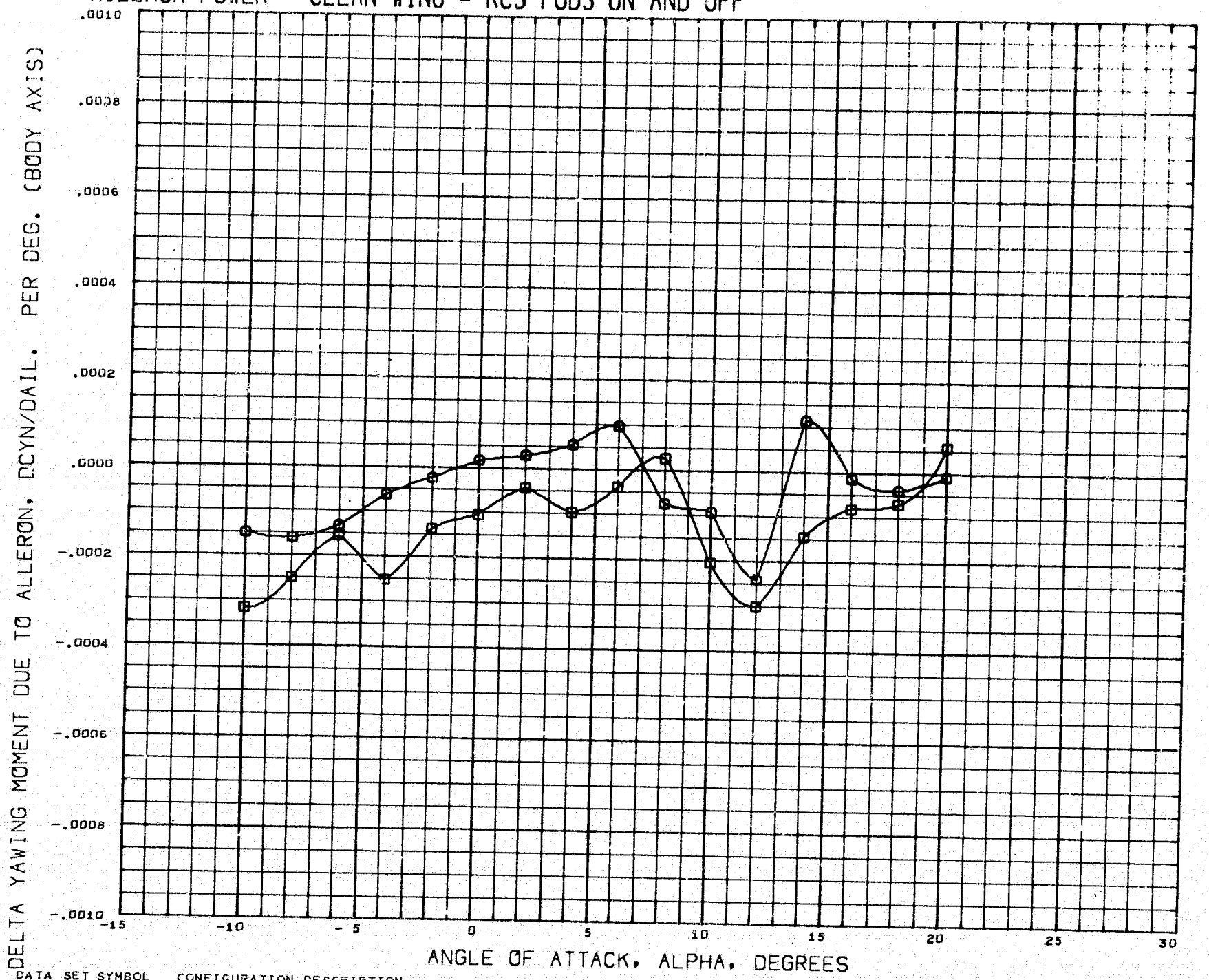
PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000
AILRON	0.000			
ELEVTR	0.000			

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5170	IN.
REFB	55.3600	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER - CLEAN WING - RCS PODS ON AND OFF



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA95)	O	4.0 PC 01 LSWT 237 B4W2V1H1N1A2
(YCDA04)	□	4.0 PC 01 LSWT 237 B4W2V1H1

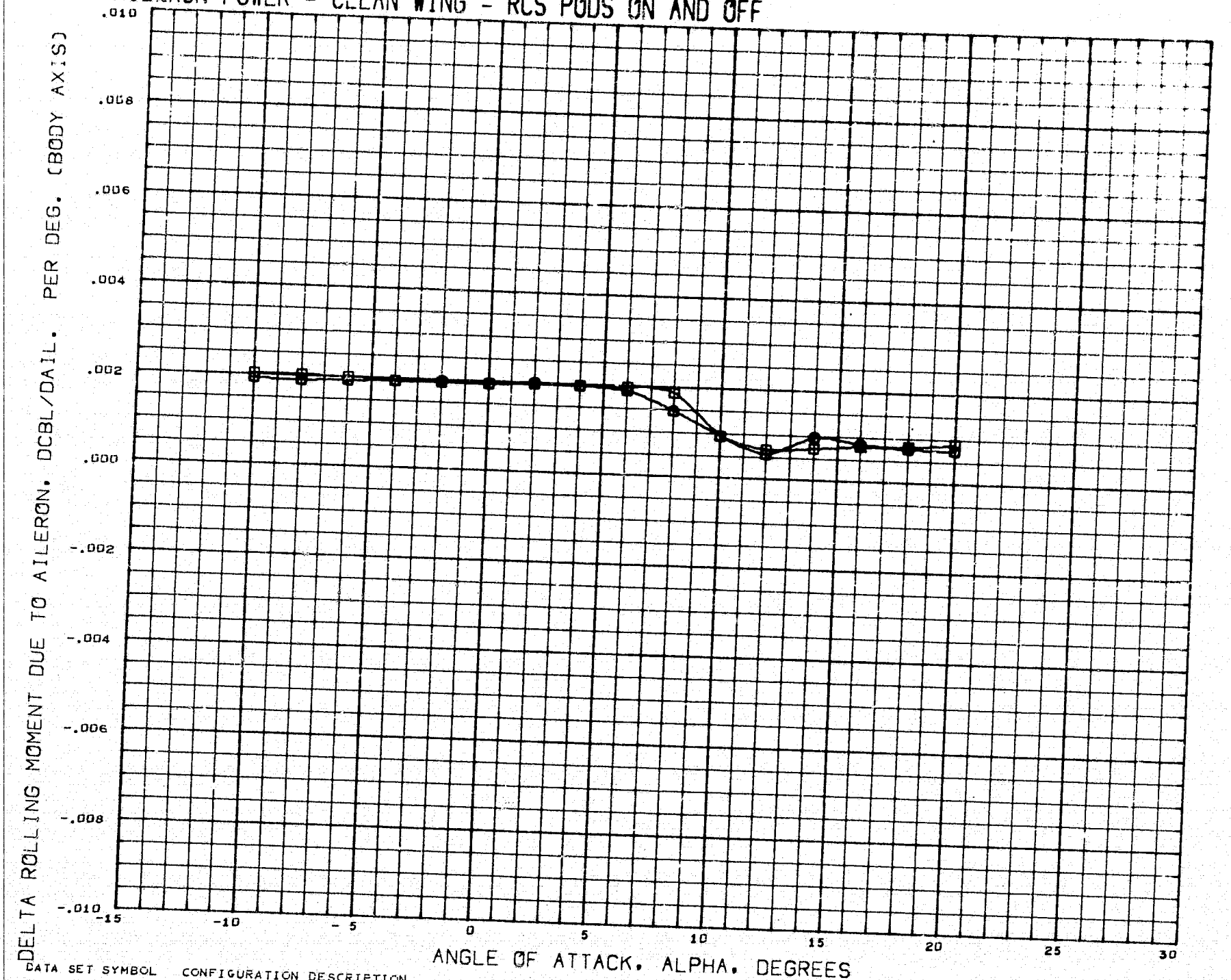
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
AILRON	0.000		
ELEVTR	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER - CLEAN WING - RCS PODS ON AND OFF



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FCDA95)	O	4.0 PC 01 LSWT 237 B4W2V1H1N1A2
(YCDA04)	□	4.0 PC 01 LSWT 237 B4W2V1H1

ELEVTR 0.000

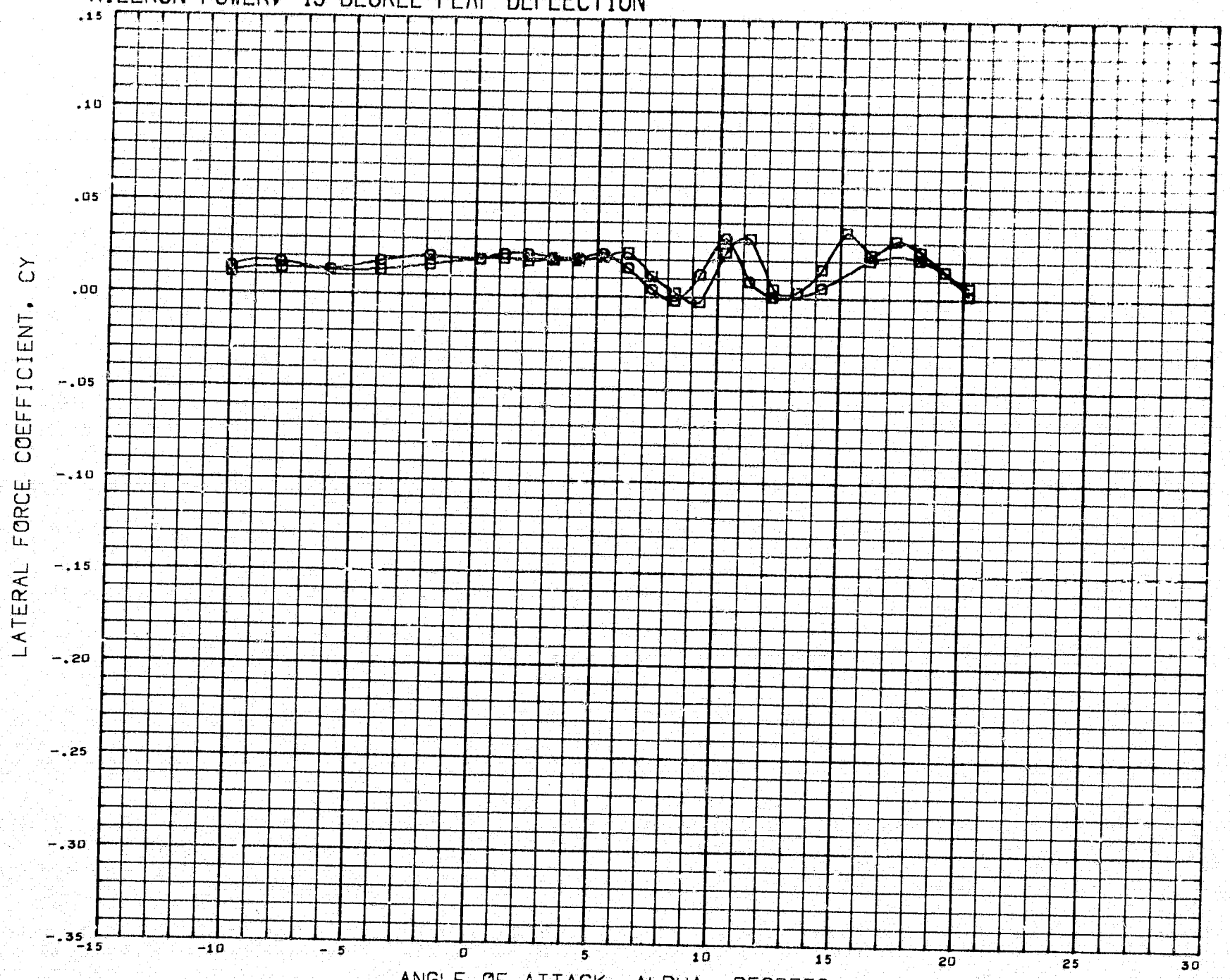
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000
AILRON 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.510[illegible]	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER, 45 DEGREE FLAP DEFLECTION



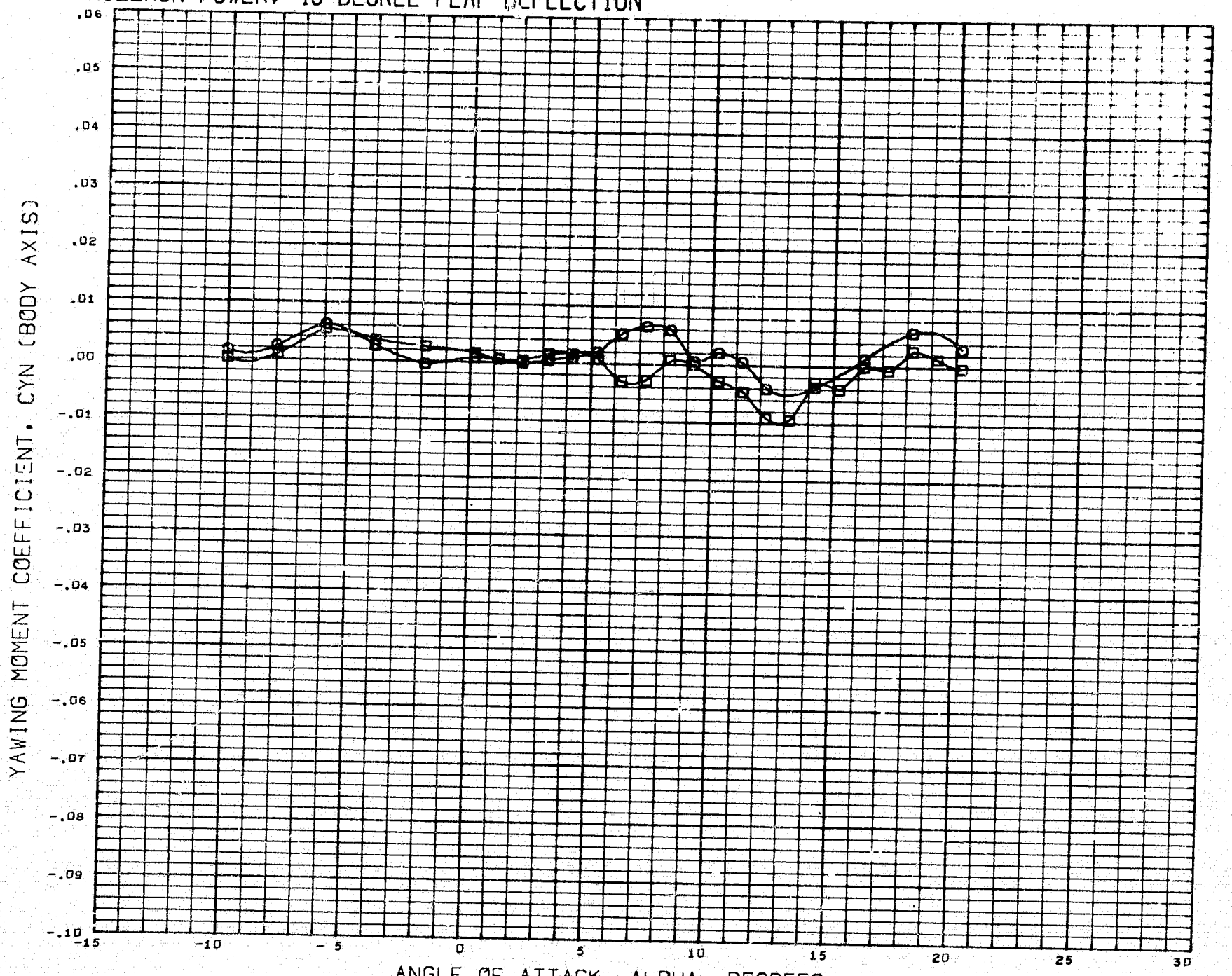
SYMBOL	AILRON		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	FLAP	45.000
		SF-L	0.000	SF-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	AILRON		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	- 5.000	FLAP	45.000
		SP-L	0.000	SP-R	0.000

DATA HIST. CODE V*E*AM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER, 45 DEGREE FLAP DEFLECTION

SYMBOL	AILRON	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	20.000	HTAIL	-5.000	FLAP	45.000
		SP-L	0.000	SP-R	0.000

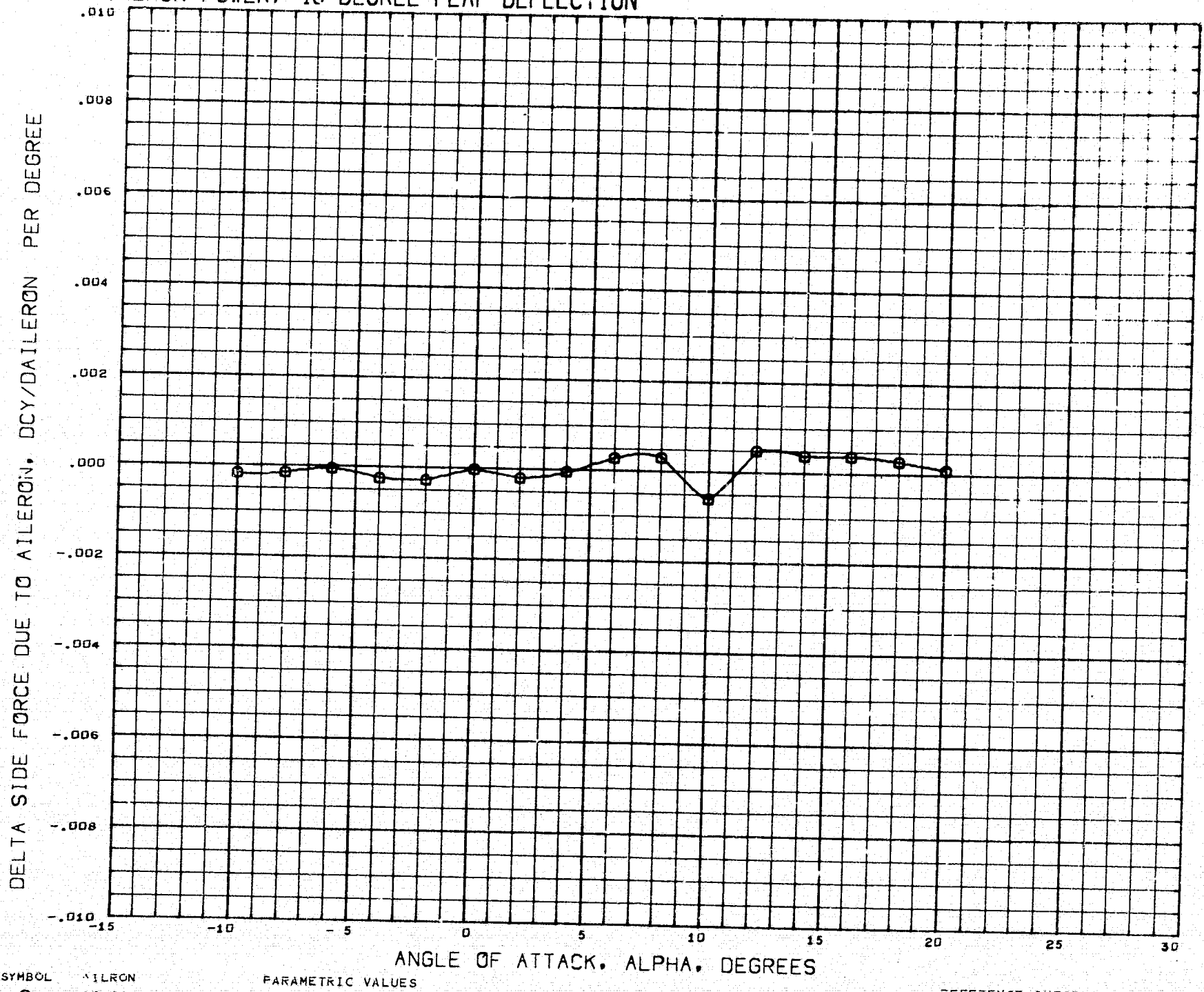
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AM

4.0 PC 01 LSWT 237 B4W2V1H1F2G

AILERON POWER, 45 DEGREE FLAP DEFLECTION



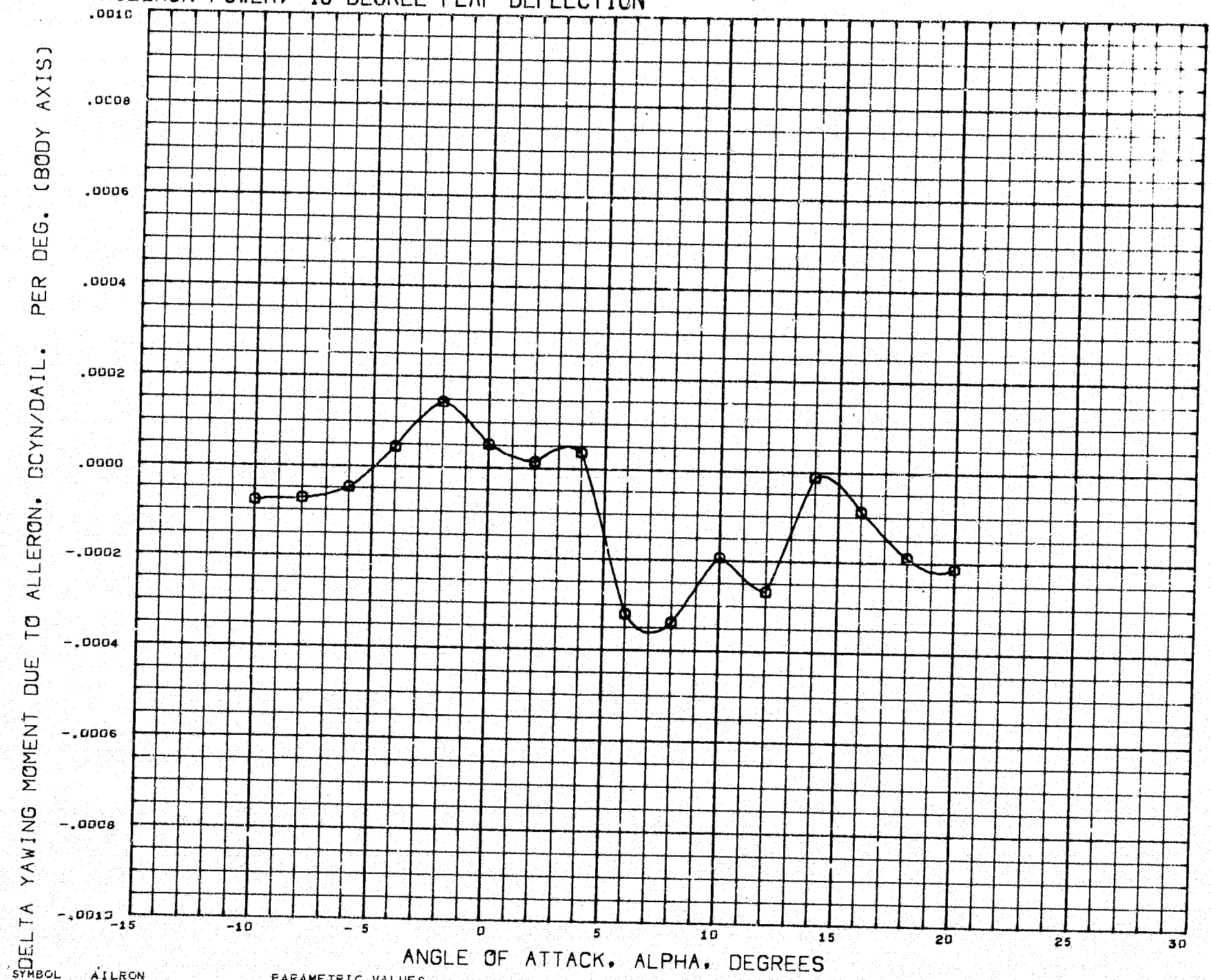
SYMBOL	AILRON		PARAMETRIC VALUES		
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	- 5.000		

DATA HIST. CODE #P

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFS	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER, 45 DEGREE FLAP DEFLECTION



SYMBOL	AILRON	PARAMETRIC VALUES			
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	- 5.000		

DATA HIST. CODE #P

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

AILERON POWER, 45 DEGREE FLAP DEFLECTION

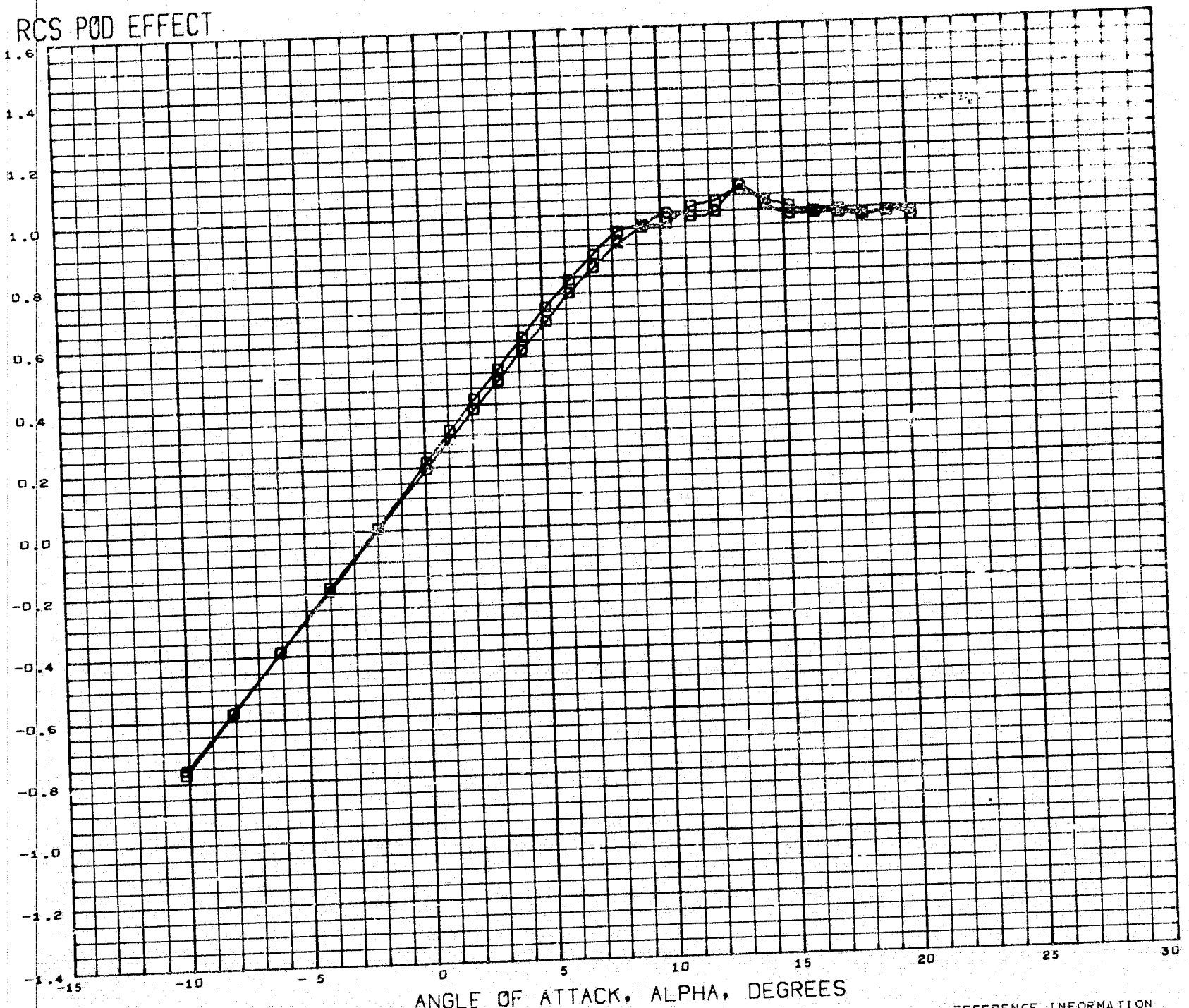
SYMBOL	AILRON	PARAMETRIC VALUES			
O	20.000	ELEVTR	0.000	BETA	0.000
		HTAIL	- 5.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE #F

RCS POD EFFECT



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	O	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 PC 01 LSWT 237 B4W2V1H1N1A2

PARAMETRIC VALUES

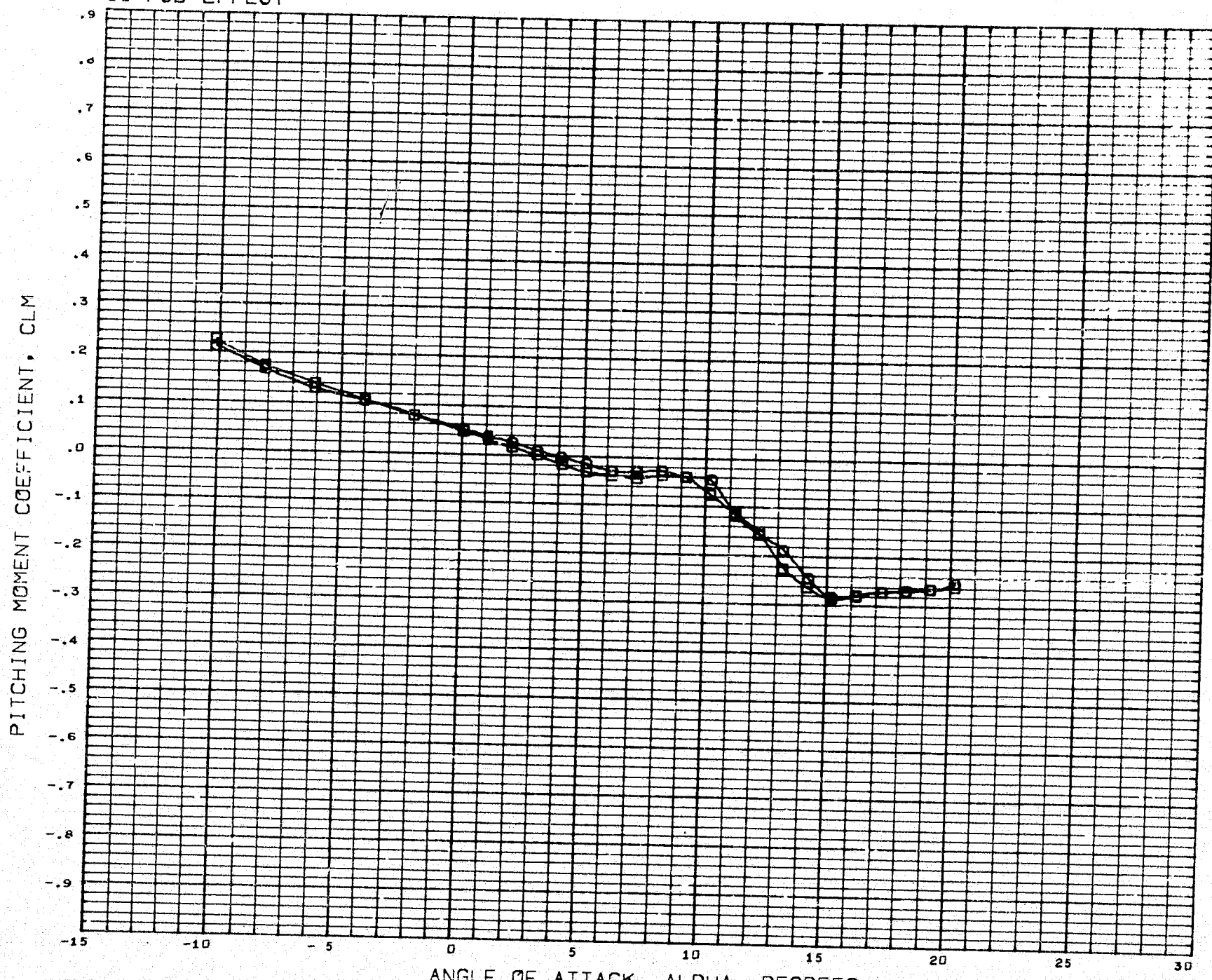
BETA	0.000	HTAIL	-	5.000	
SF-L	0.000	SF-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	6.5150	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVTR 0.000

RCS PØD EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(0CDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 PC 01 LSWT 237 B4W2V1H1N1A2

ELEVTR 0.000

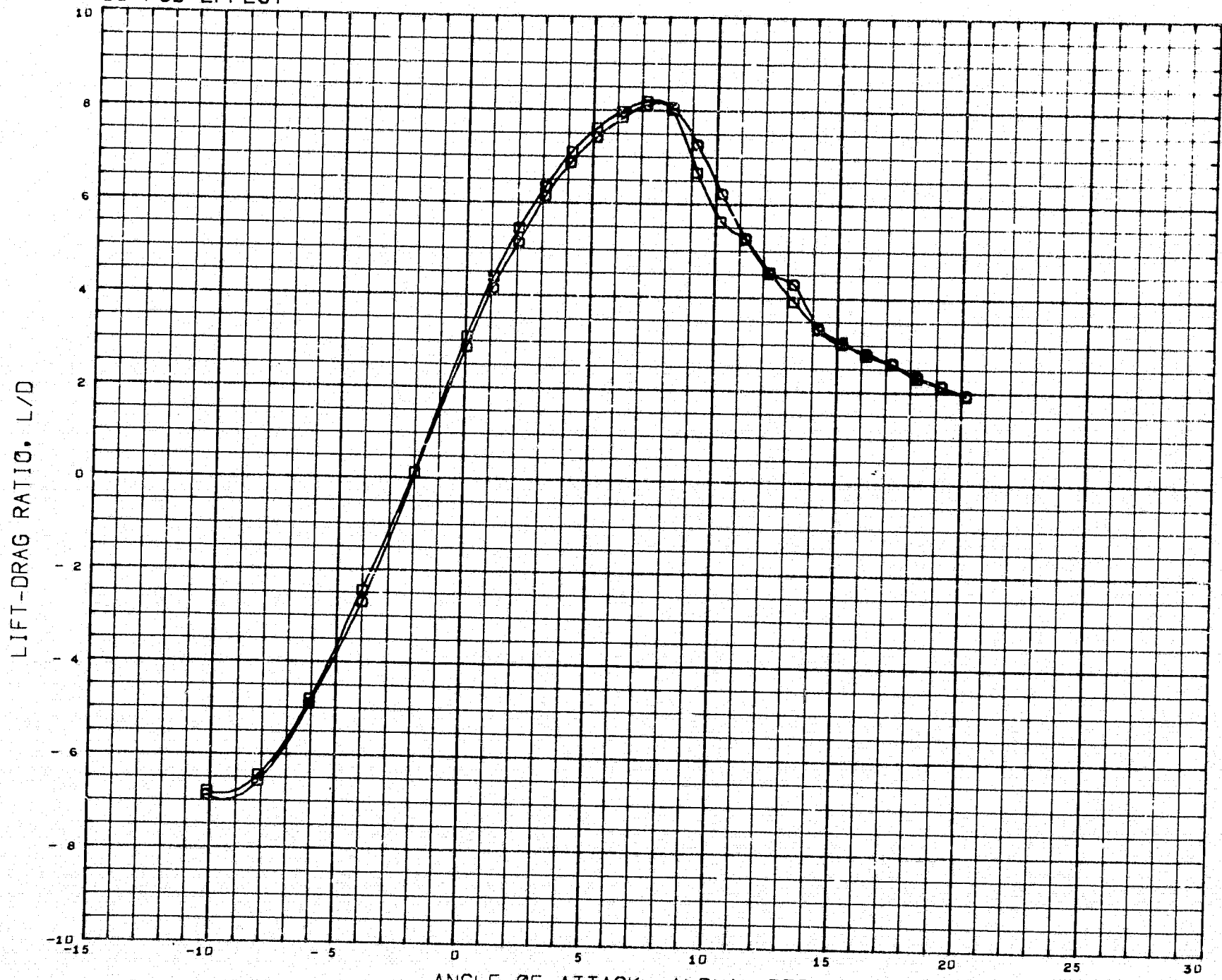
PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000	
SP-L	0.000	SP-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 FC 01 LSWT 237 B4W2V1H1N1A2

ELEVTR 0.000

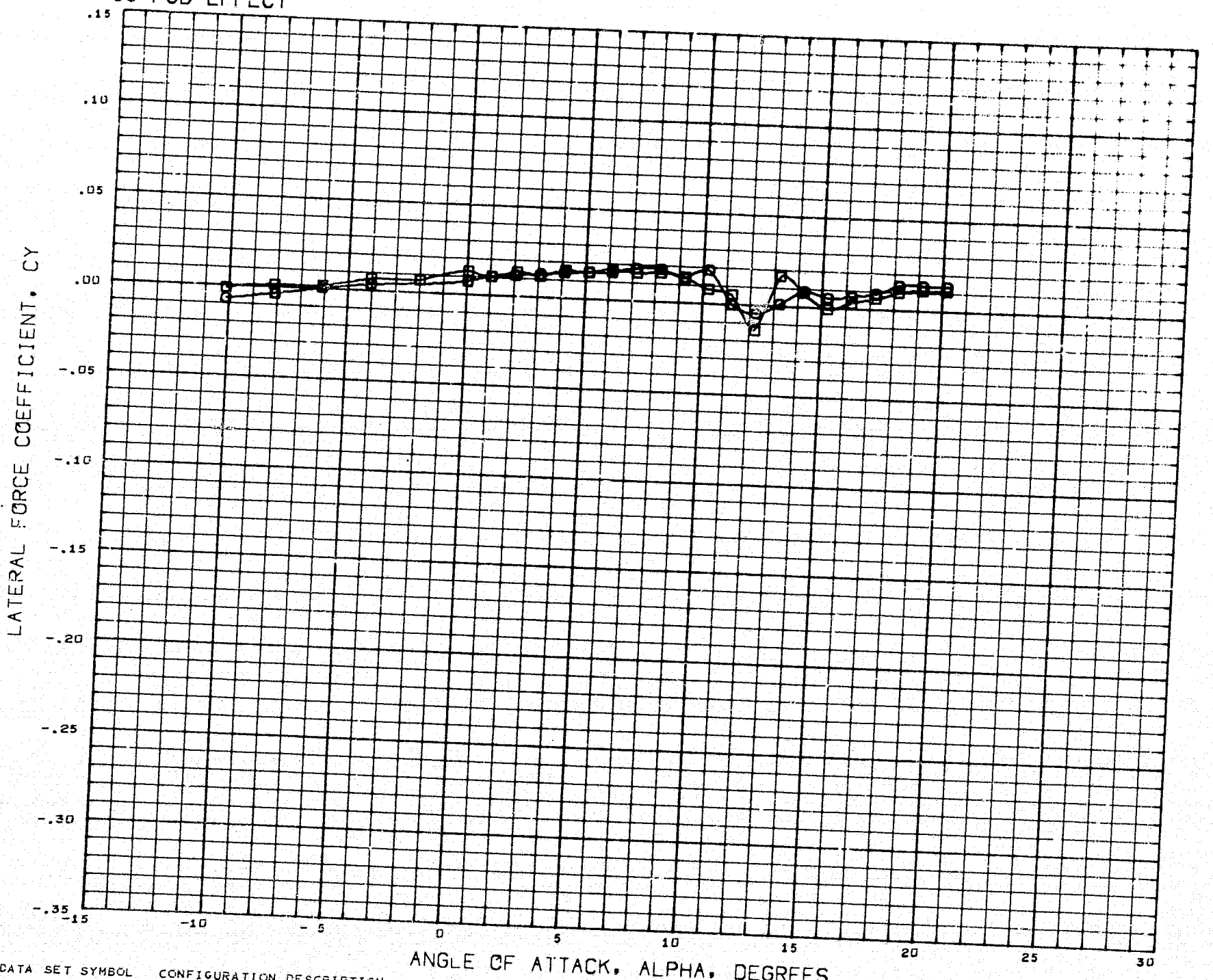
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000	
SF-L	0.000	SF-R	0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(DCDA04) ○ 4.0 FC 01 LSWT 237 B4W2V1H1

(BCDA95) □ 4.0 FC 01 LSWT 237 B4W2V1H1N1A2

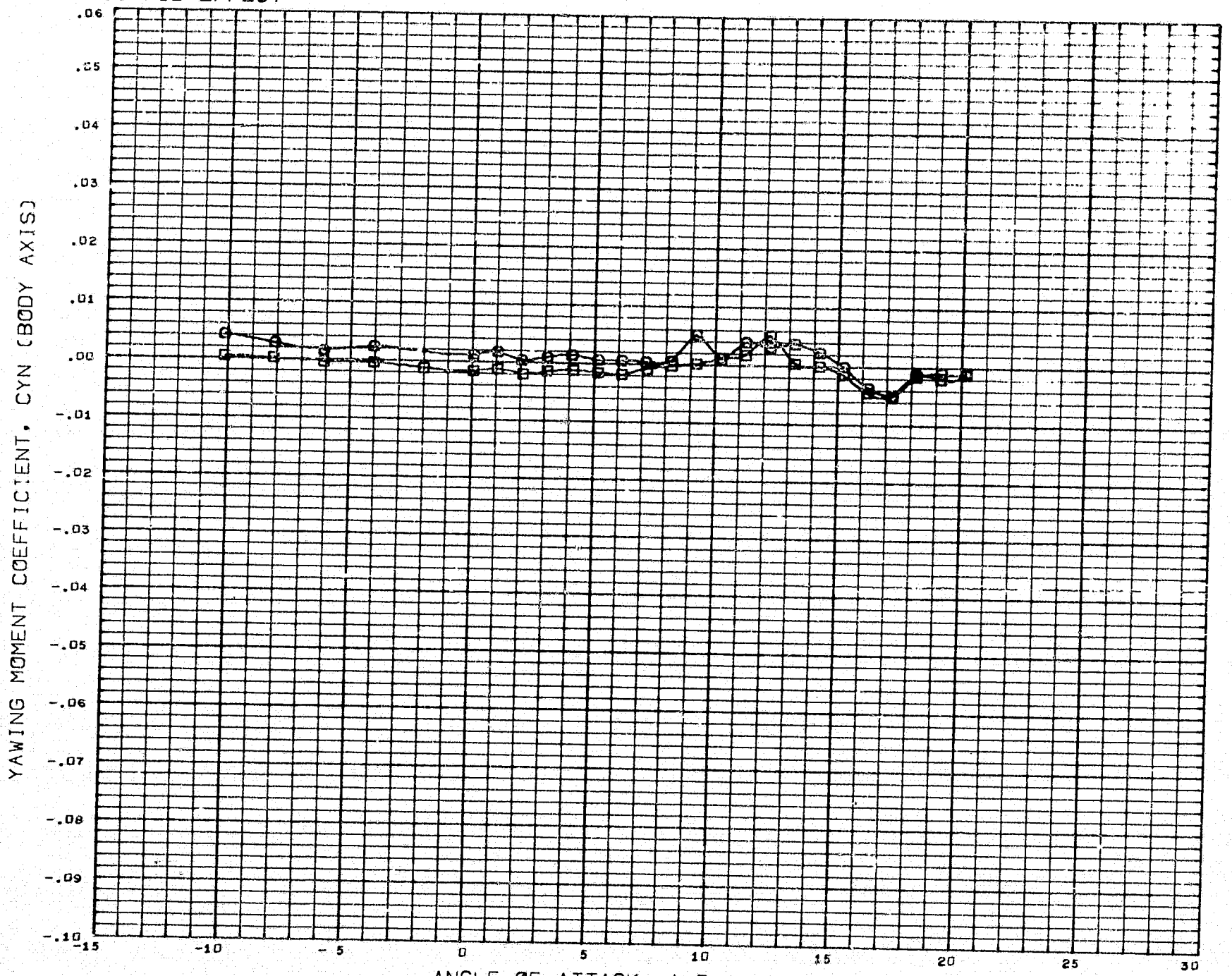
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000	ELEVTR	0.000
SP-L	0.000	SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5140	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 PC 01 LSWT 237 B4W2V1H1N1A2

ELEVTR 0.000

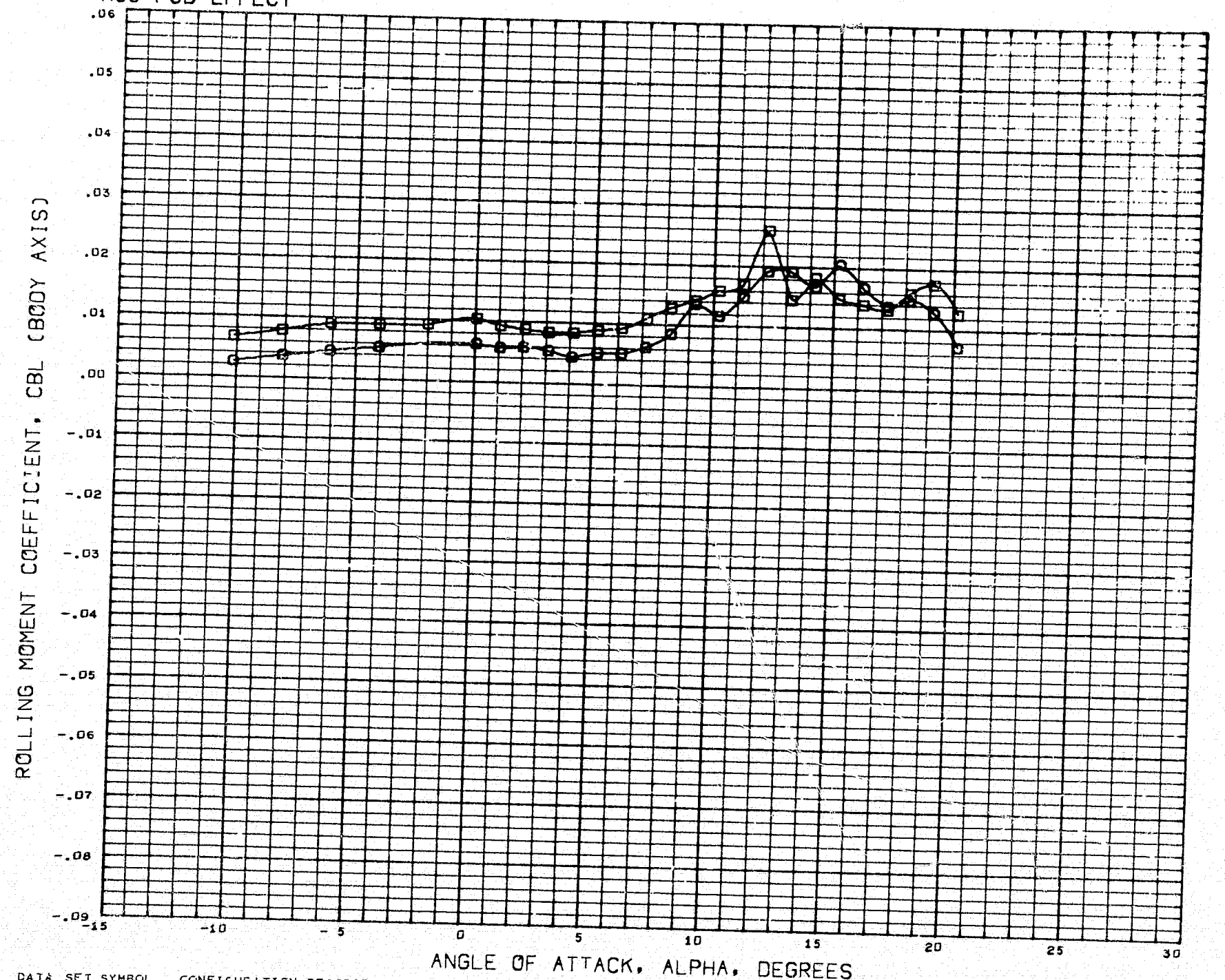
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000		
SP-L	0.000	SP-R	0.000		

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5107	IN.
REFB	55.3800	IN.
XMRP	37.5400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	O	4.0 FC 01 LSWT 237 B4W2V1A1
(BCDA95)	□	4.0 FC 01 LSWT 237 B4W2V1N1-N1A2

ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL	-5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 FC 01 LSWT 237 B4W2V1H1N1A2

ELEVTR 0.000

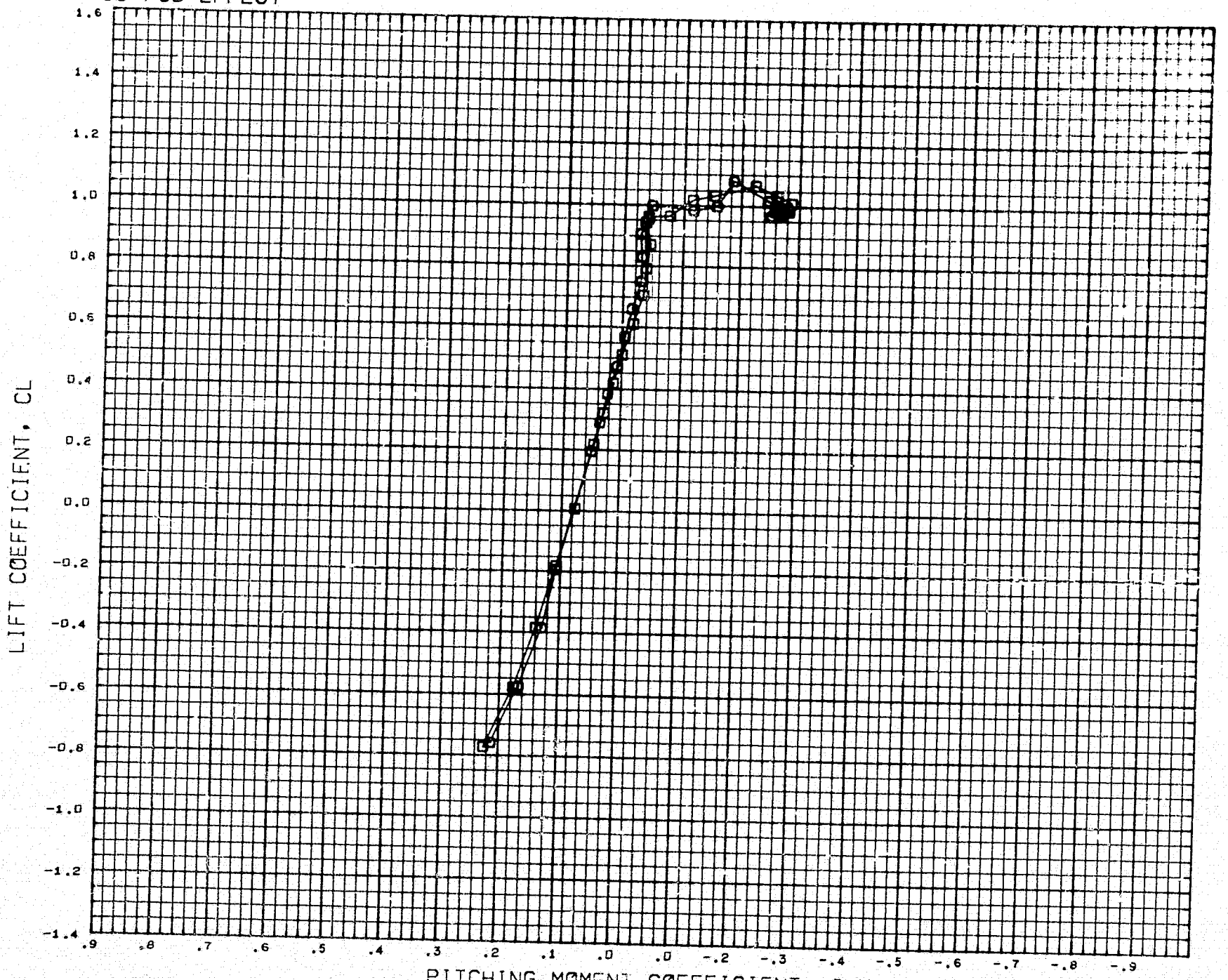
PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000	
SP-L	0.000	SP-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

RCS POD EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(DCDA04)	O	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA95)	□	4.0 FC 01 LSWT 237 B4W2V1H1N1A2

PARAMETRIC VALUES

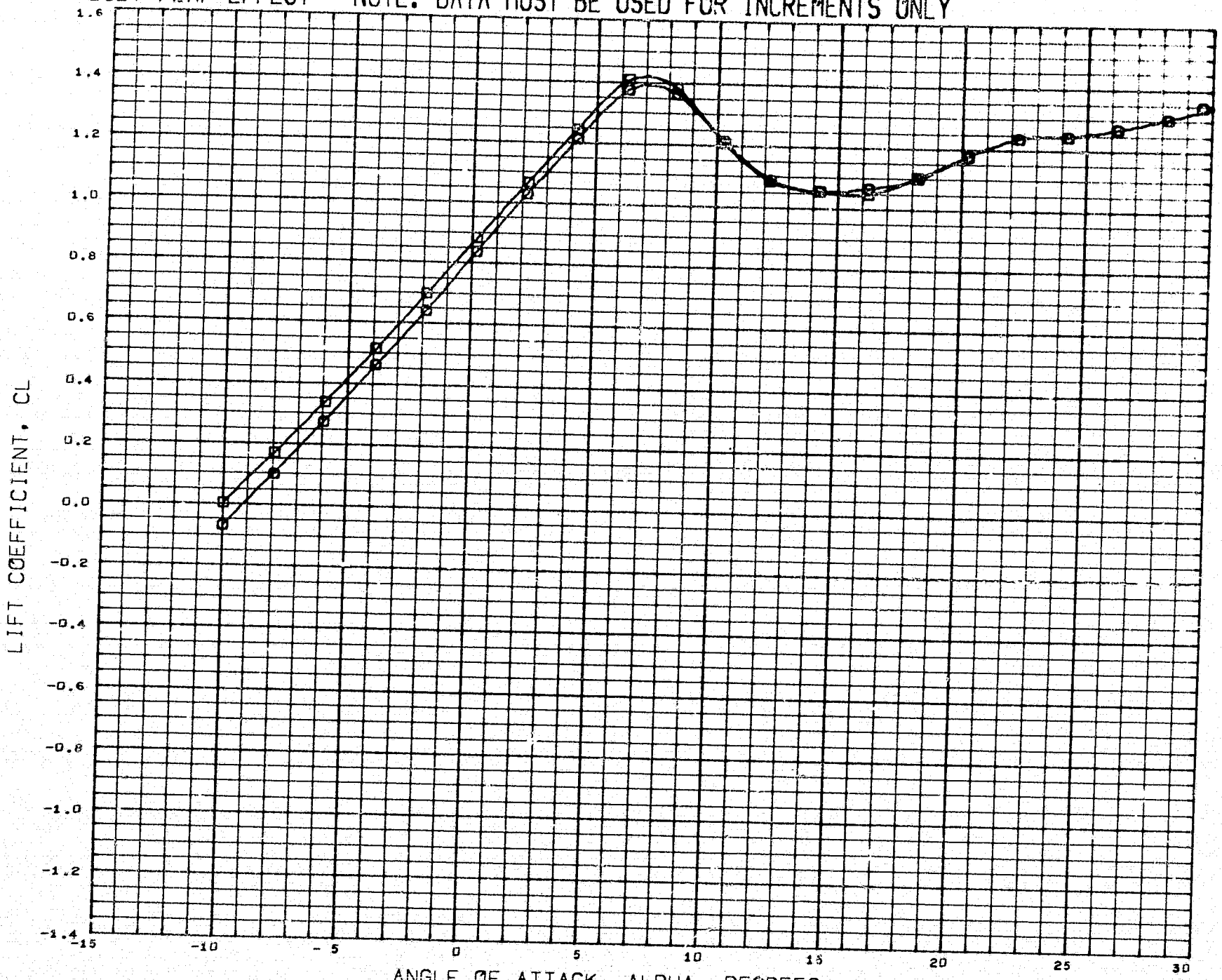
BETA	0.000	HTAIL -	5.000
SF-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5103	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVTR 0.000

BODY FLAP EFFECT - NOTE. DATA MUST BE USED FOR INCREMENTS ONLY



SYMBOL	FLAP,B	PARAMETRIC VALUES			
O	0.000	BETA	0.000	HTAIL	- 5.000
□	45.000	ELEVTR	0.000	FLAP	45.000

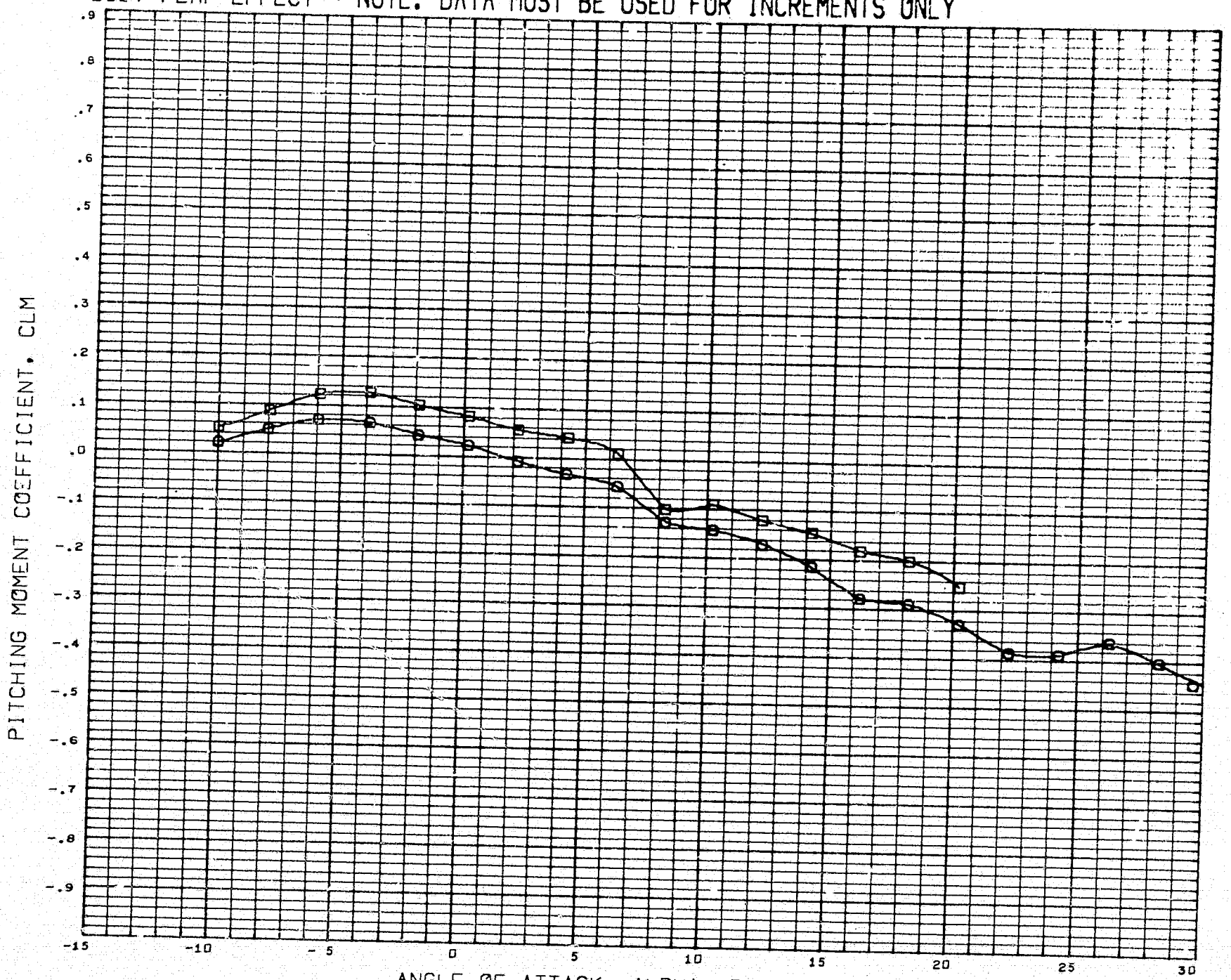
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2FB1G

BODY FLAP EFFECT - NOTE. DATA MUST BE USED FOR INCREMENTS ONLY



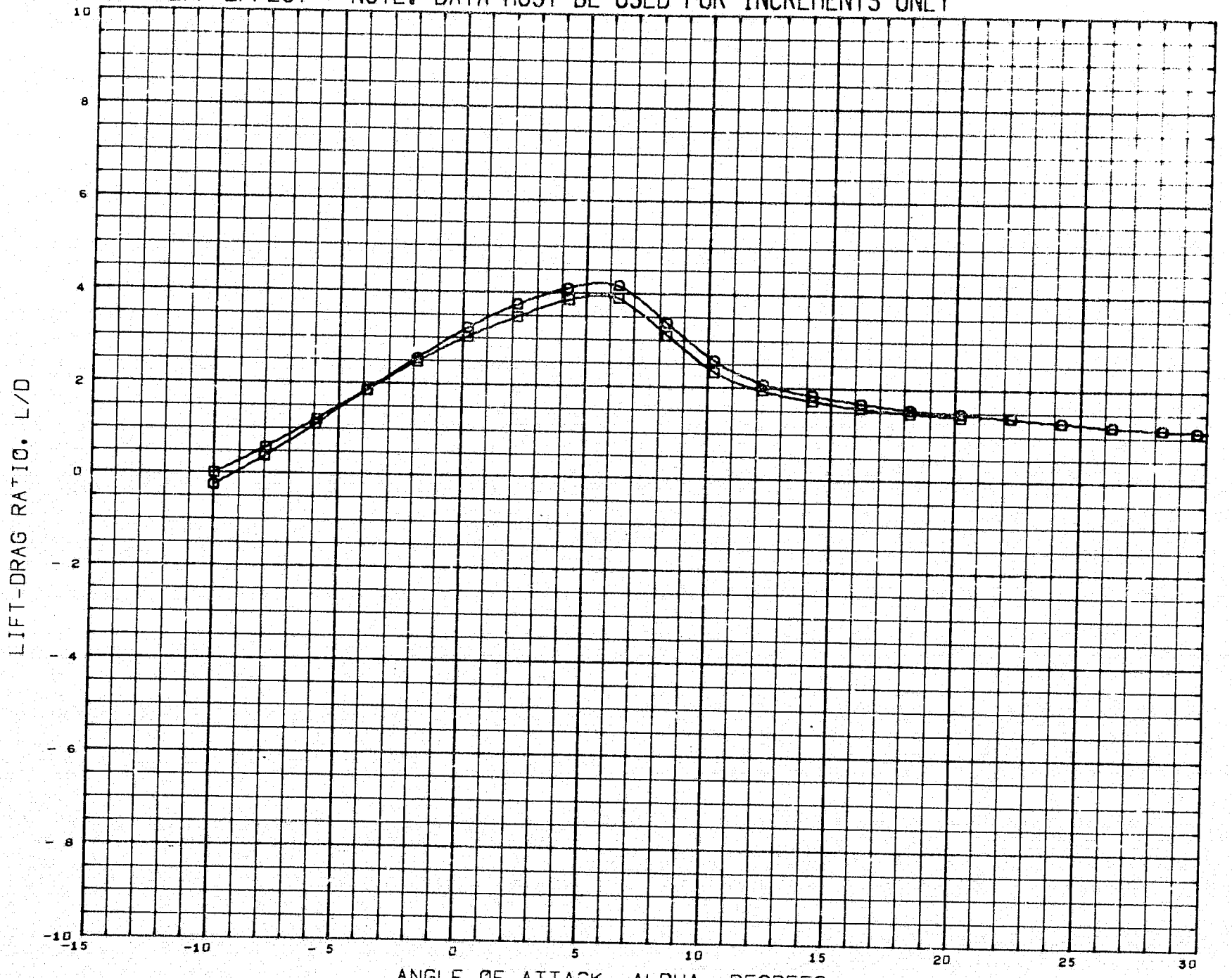
SYMBOL	FLAP,B		PARAMETRIC VALUES		
O	0.000	BETA	0.000	HTAIL	-5.000
□	45.000	ELEVTR	0.000	FLAP	45.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

BODY FLAP EFFECT - NOTE. DATA MUST BE USED FOR INCREMENTS ONLY



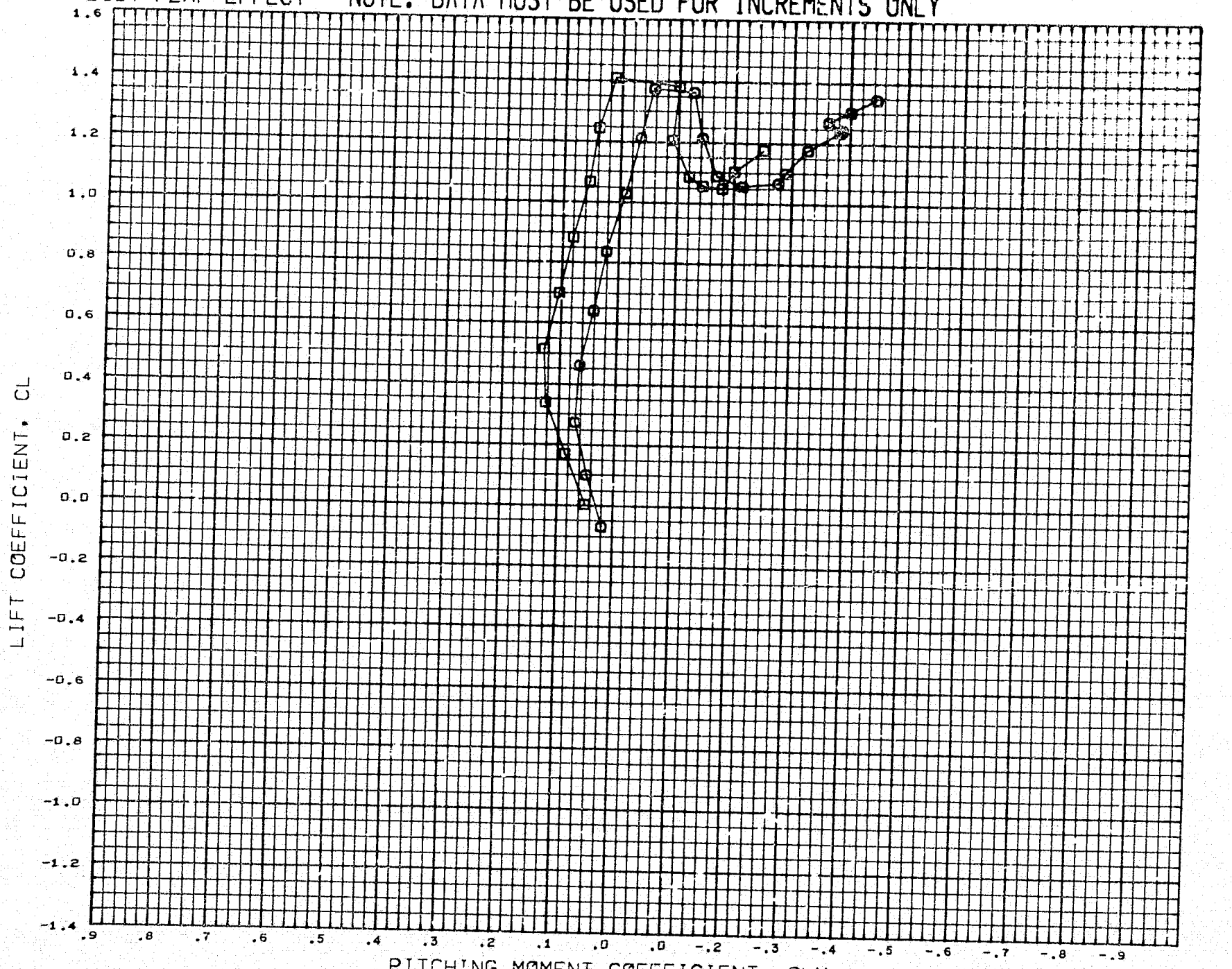
SYMBOL	FLAP,B		PARAMETRIC VALUES		
O	0.000	BETA	0.000	HTAIL	- 5.000
□	45.000	ELEVTR	0.000	FLAP	45.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

BODY FLAP EFFECT - NOTE. DATA MUST BE USED FOR INCREMENTS ONLY



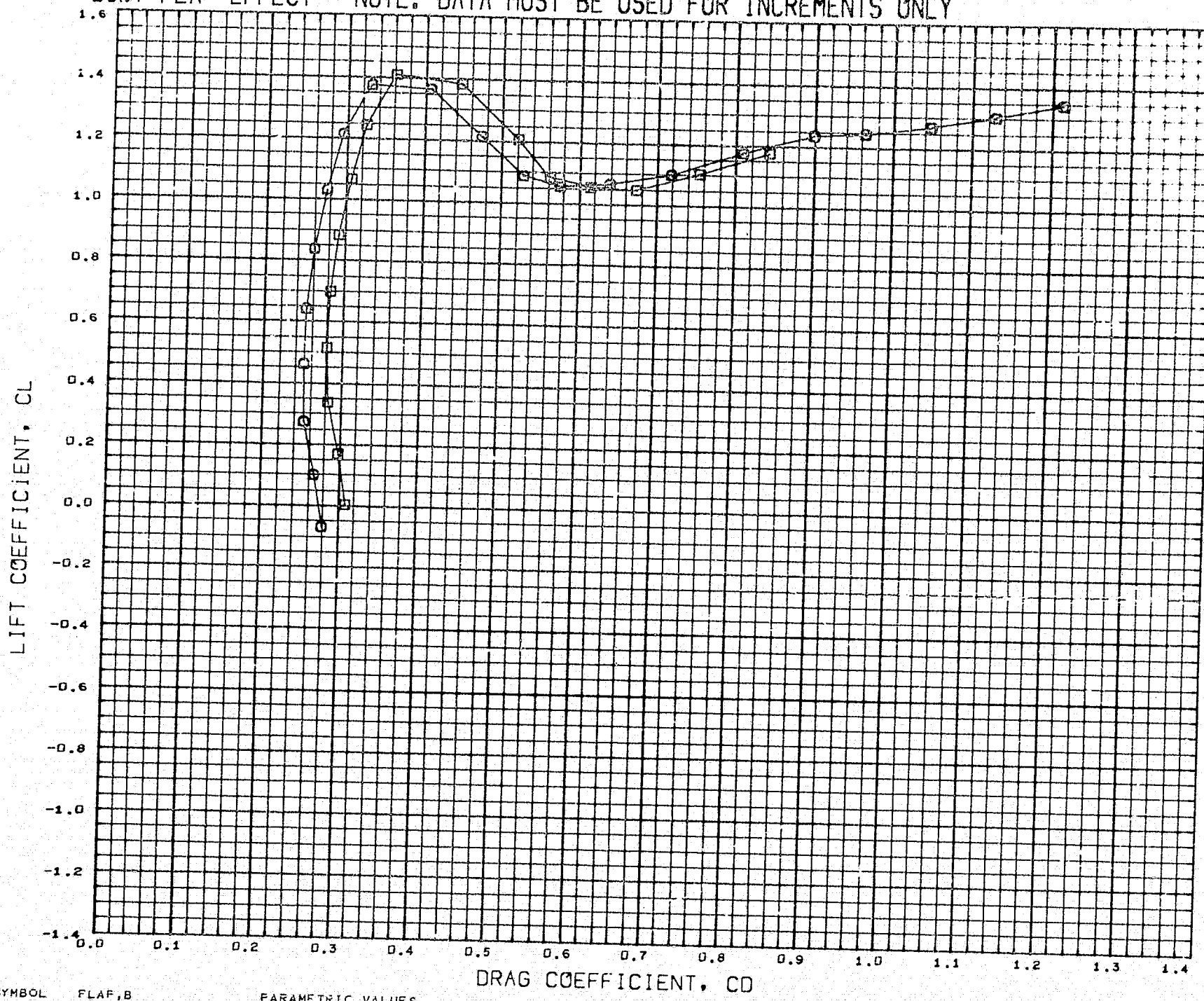
SYMBOL	FLAP,B		PARAMETRIC VALUES		
O	0.000	BETA	0.000	HTAIL	- 5.000
□	45.000	ELEVTR	0.000	FLAP	45.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3200	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

BØDY FLAP EFFECT - NØTE, DATA MUST BE USED FØR INCREMENTS ØNLY



SYMBOL	FLAP,B		PARAMETRIC VALUES		
O	0.000	BETA	0.000	HTAIL	- 5.000
□	45.000	ELEVTR	0.000	FLAP	45.000

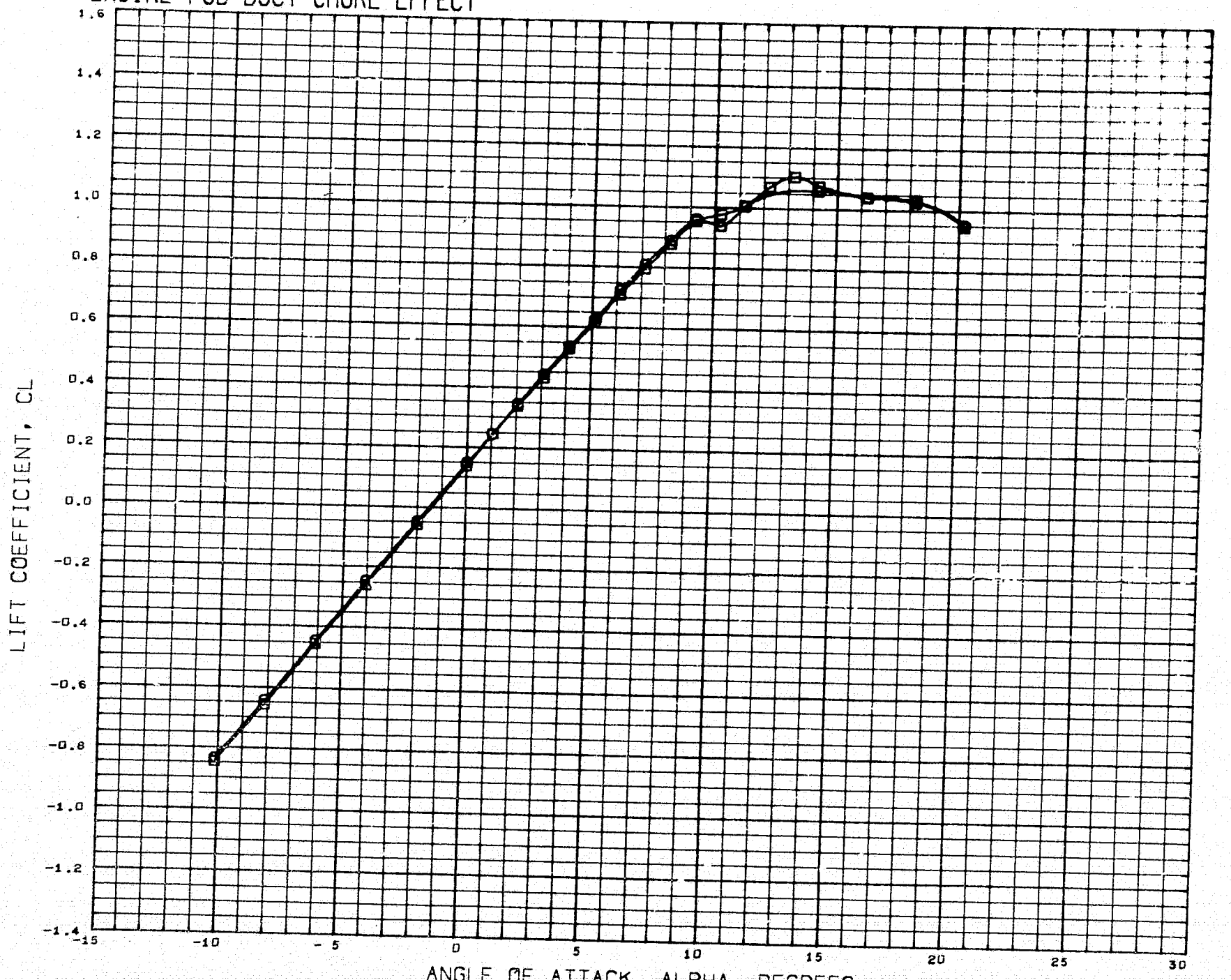
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1F2FB1G

ENGINE POD DUCT CHOKE EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(SCDA73) ○ 4.0 PC 01 LSWT 237 B4W2V1H1F3D1

(BCDA70) □ 4.0 PC 01 LSWT 237 B4W2V1H1F3D4

PARAMETRIC VALUES

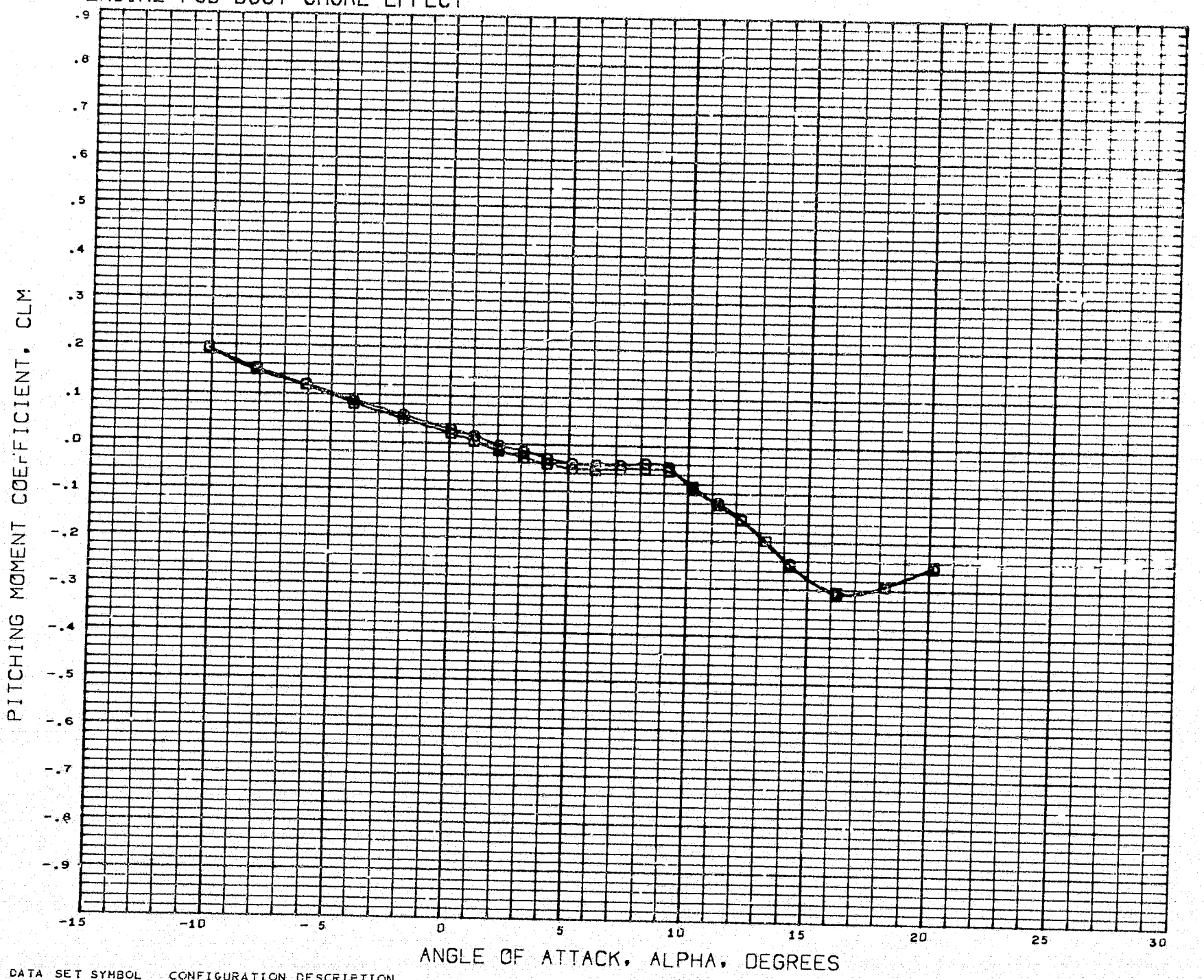
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(SCDA73)	○	4.0 FC 01 LSWT 237 B4W2V1H1P3D1
(BCDA7D)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D4

PARAMETRIC VALUES

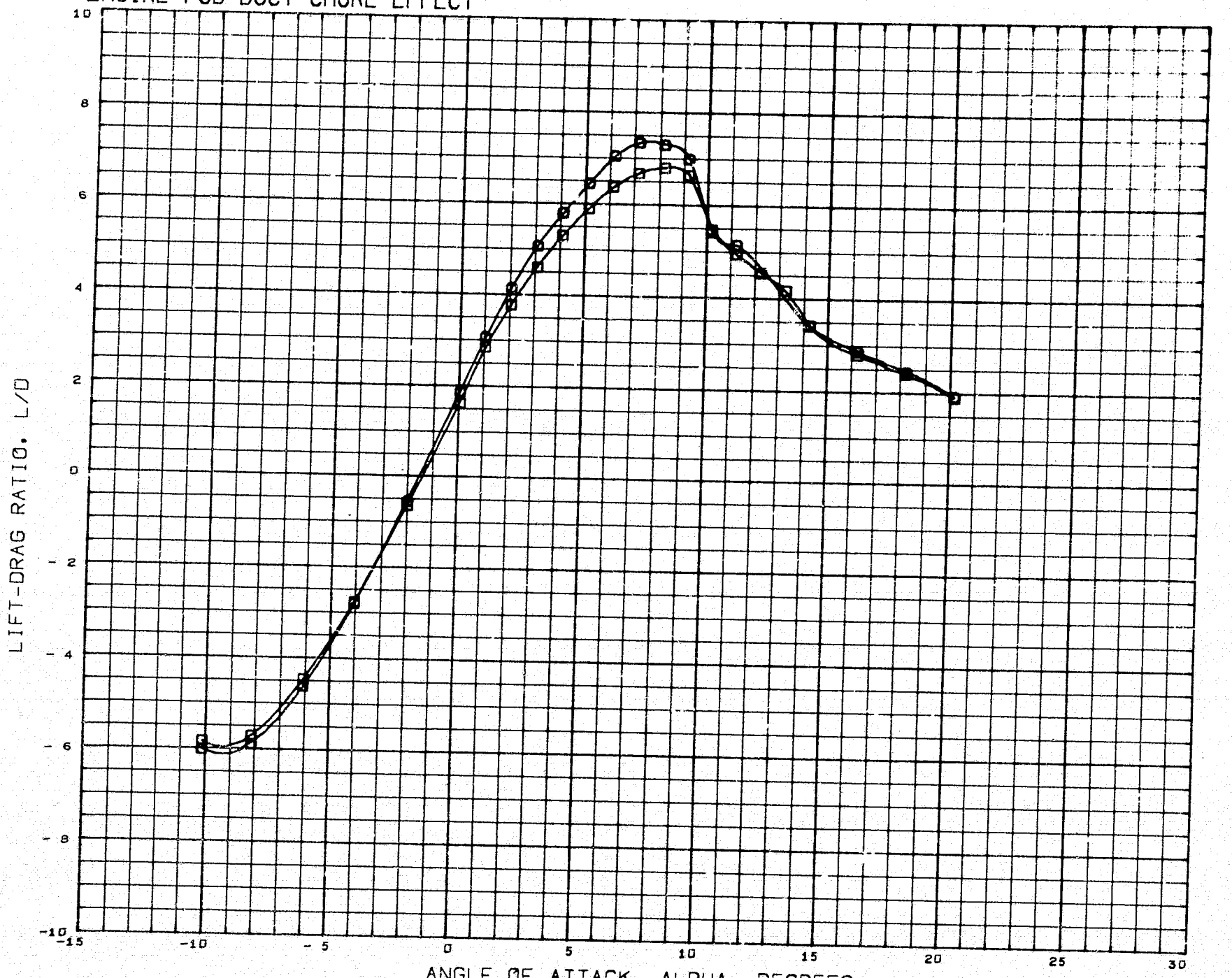
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7714	SQ. IN
REFL	2.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(SCDA73) ○ 4.0 PC 01 LSWT 237 B-W2V1H1P3D1

(BCDA75) □ 4.0 PC 01 LSWT 237 B4W2V1H1P3D4

PARAMETRIC VALUES

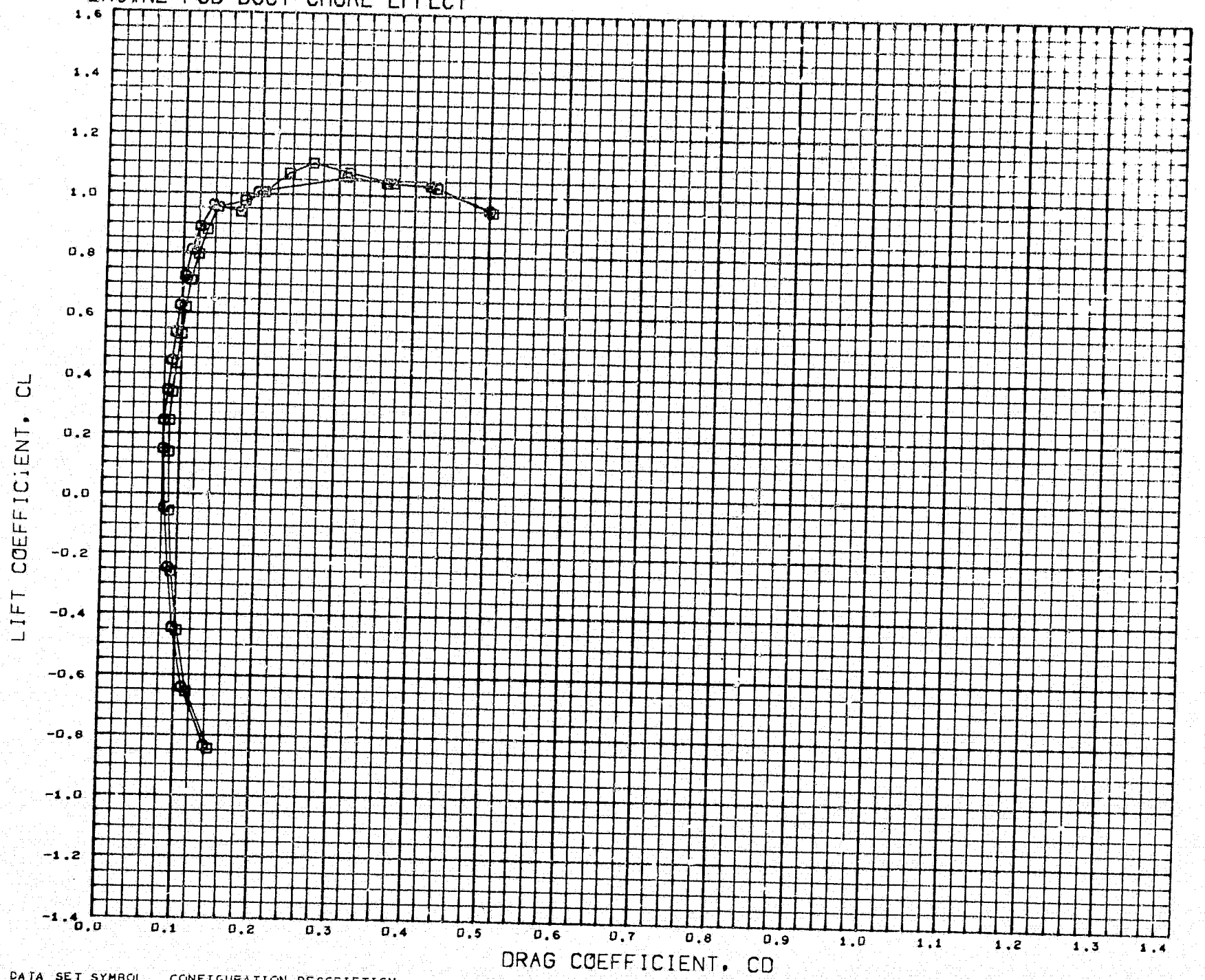
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7701	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(SCDA73)	O	4.0 FC 01 LSWT 237 B4W2V1H1F3D1
(BCDA70)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D4

PARAMETRIC VALUES

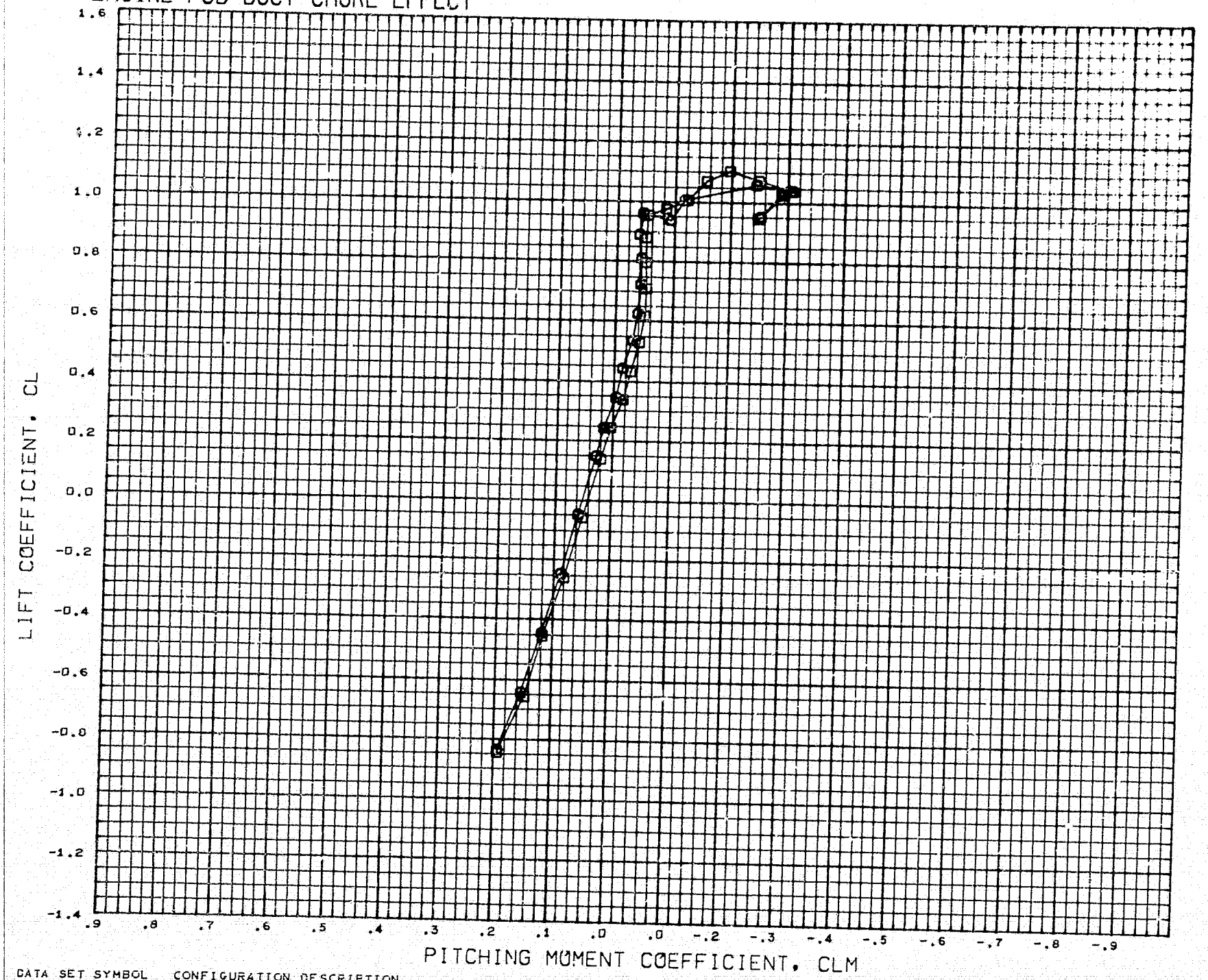
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7794	SQ. IN
REFL	8.5130	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(SCDA73) ○ 4.0 PC 01 LSWT 237 B4W2V1H1P3D1

(BCDA7D) □ 4.0 PC 01 LSWT 237 B4W2V1H1P3D4

PARAMETRIC VALUES

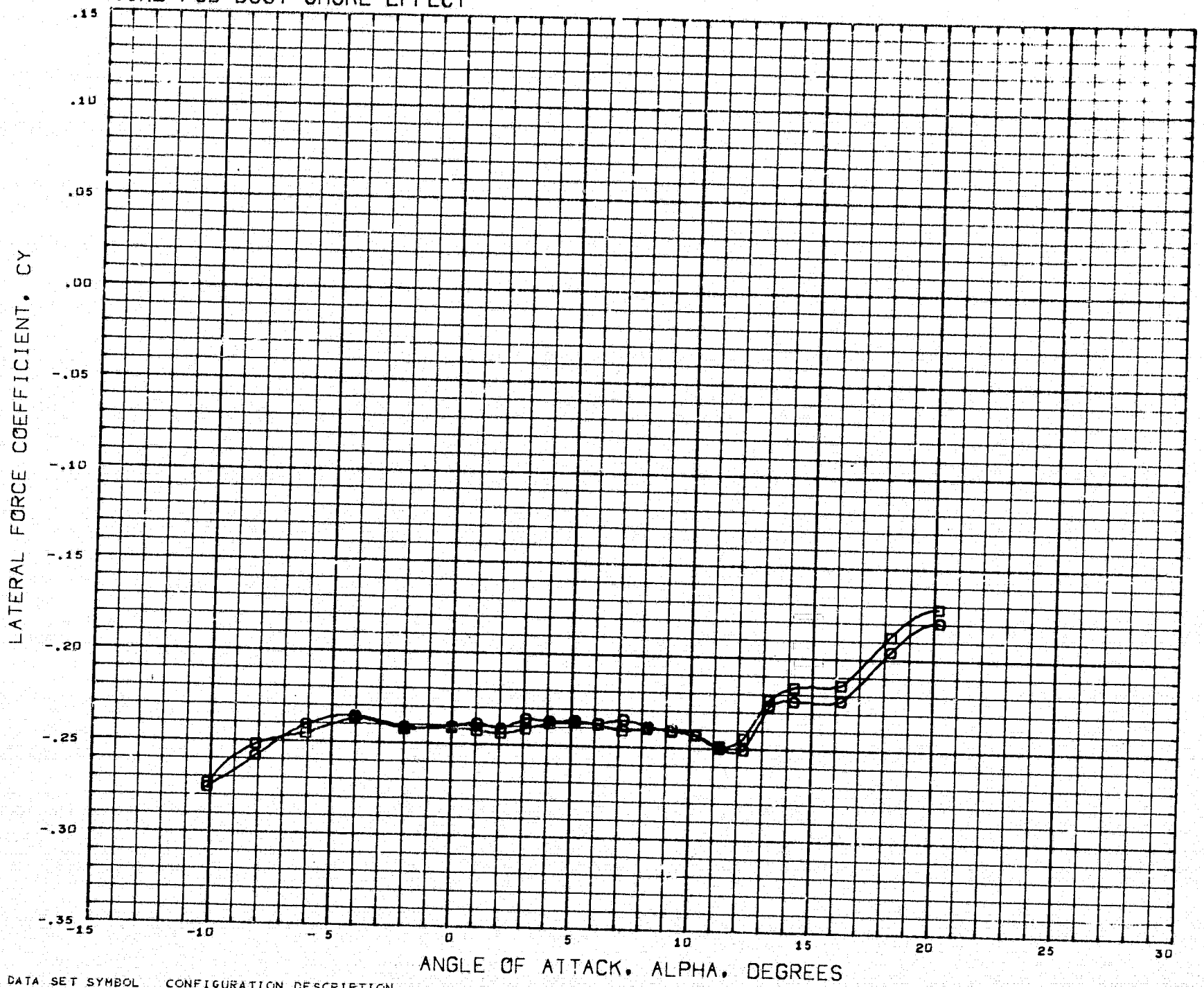
BETA 0.000 HTA - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5140	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA75)	O	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA71)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D4

PARAMETRIC VALUES

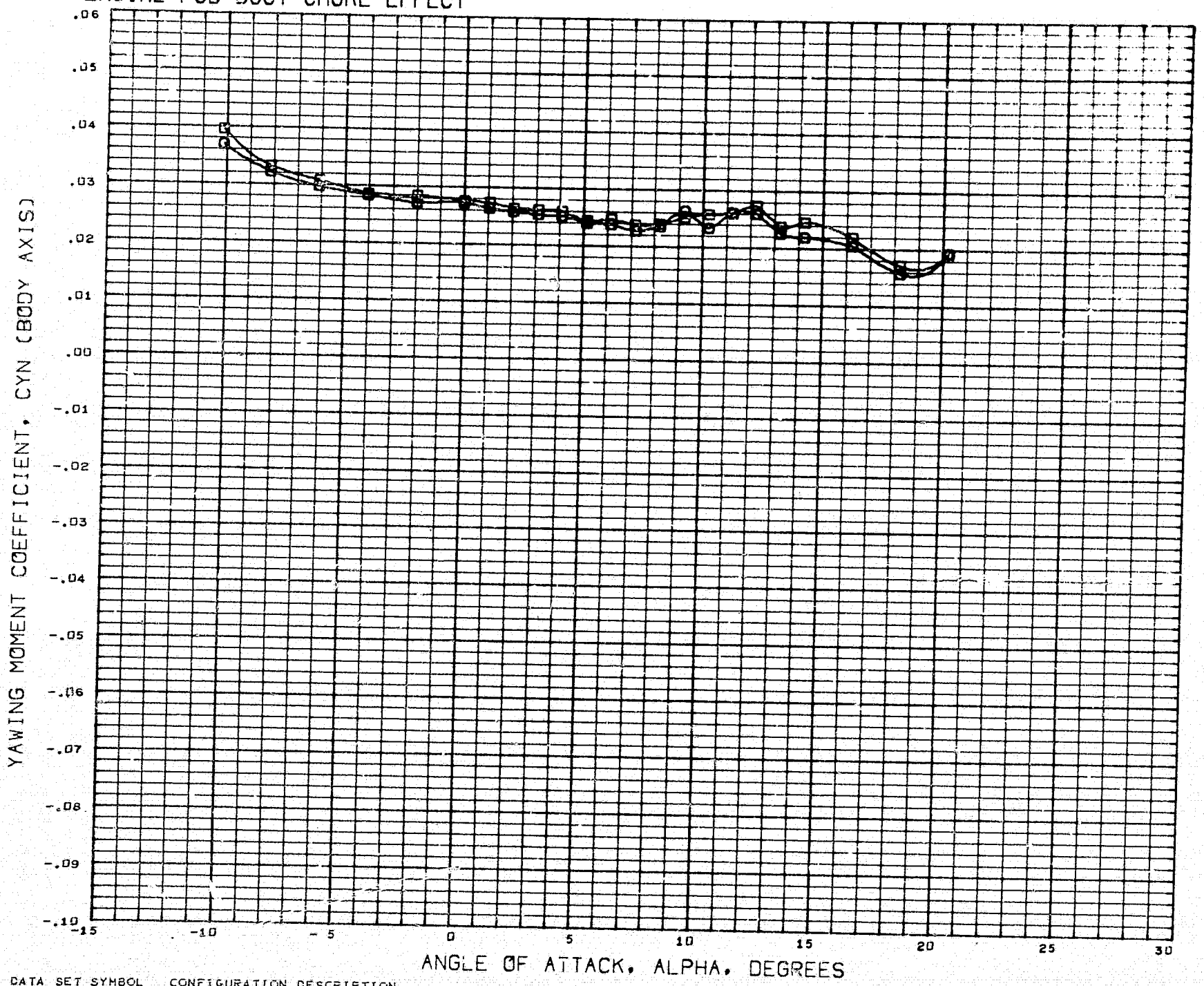
BETA 5.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA75)	O	4.0 PC 01 LSWT 237 B4W2V1H1F3D2
(BCDA71)	□	4.0 PC 01 LSWT 237 B4W2V1H1F3D4

ELEVTR 0.000

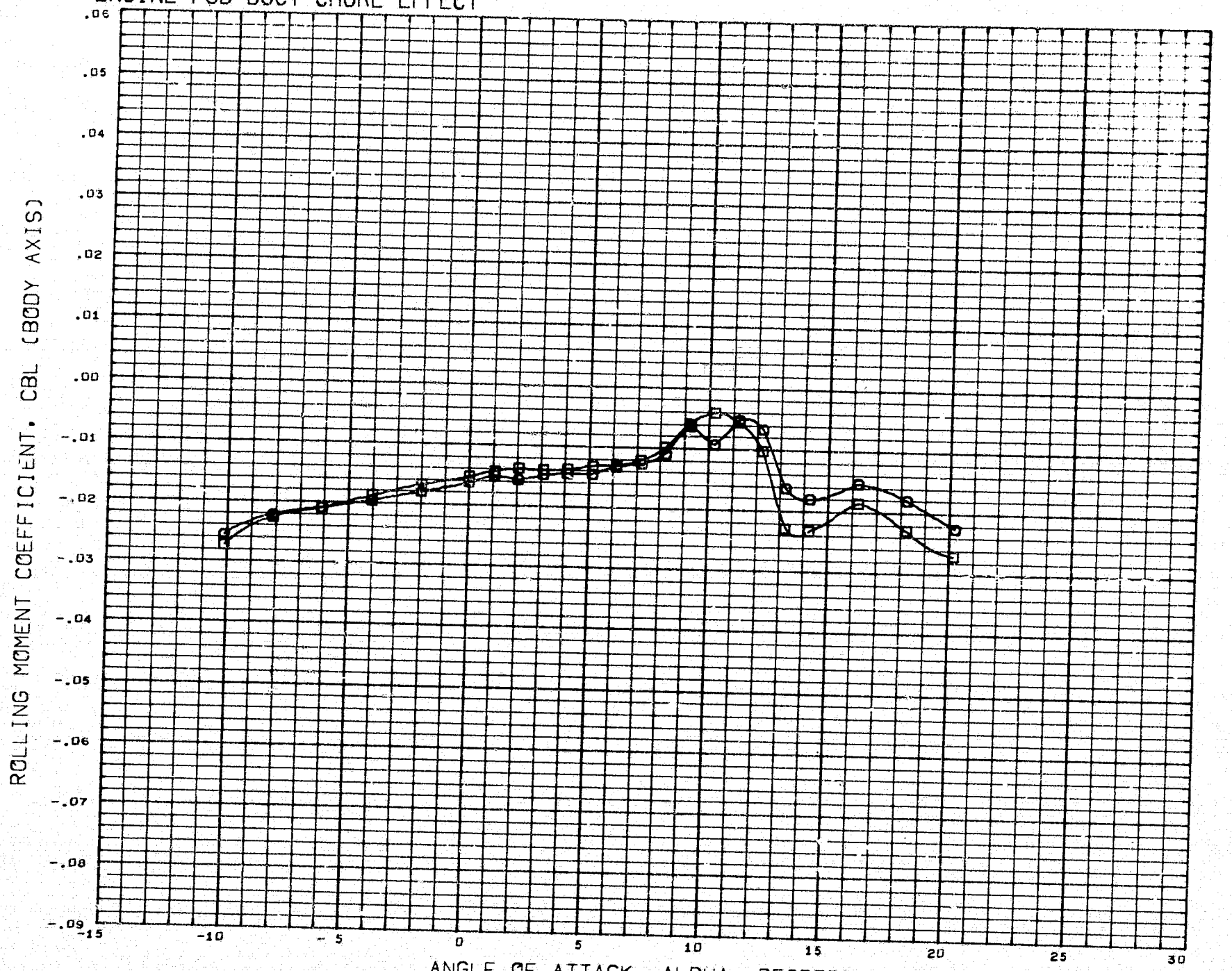
PARAMETRIC VALUES

BETA 5.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD DUCT CHOKE EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCDA75)	O	4.0 FC 01 LSWT 237 E4W2V1H1F3D2
(BCDA71)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D4

PARAMETRIC VALUES

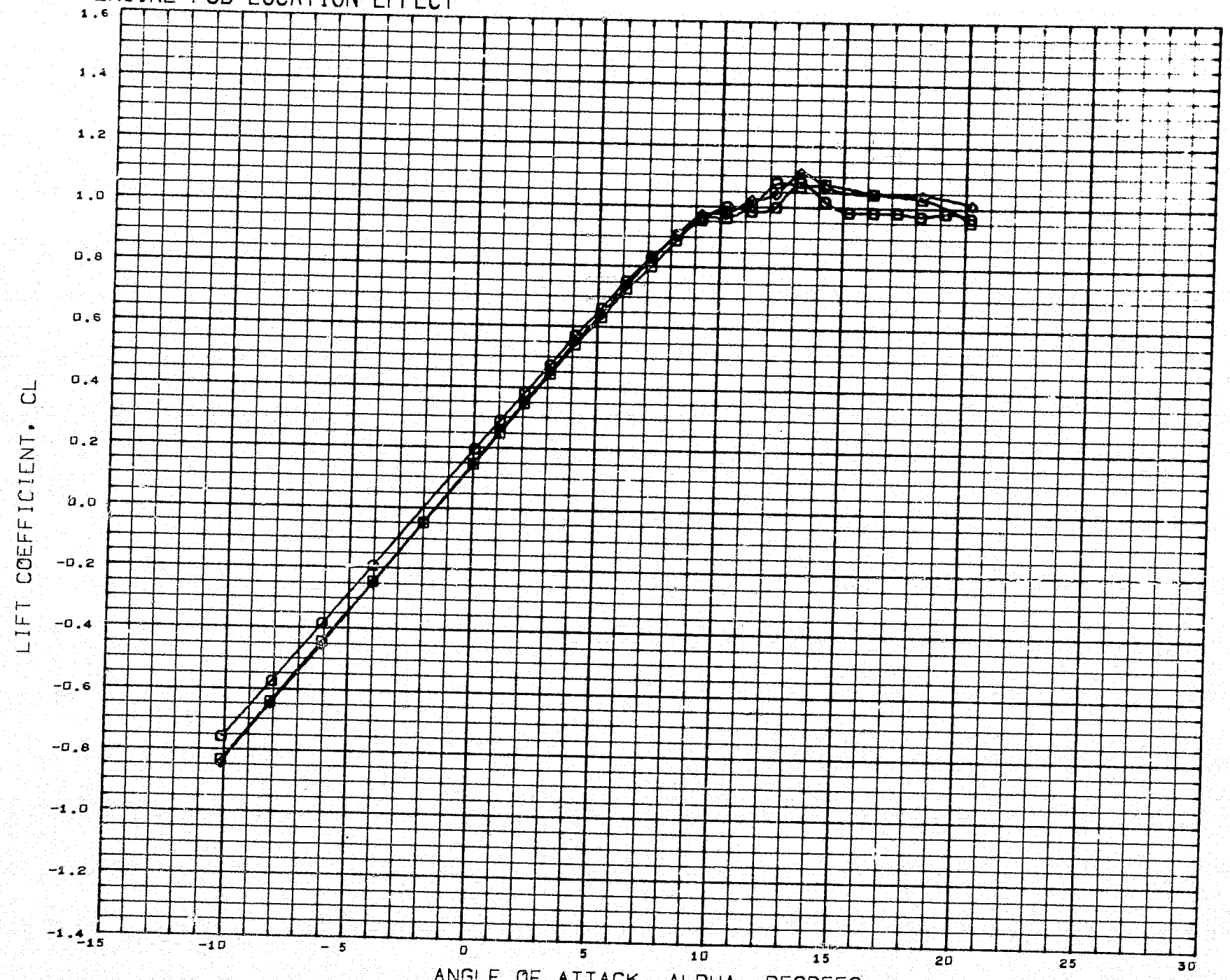
BETA 5.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 PC 01 LSWT 237 B4W2V1H1P3D2
(BCDA85)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR 0.000

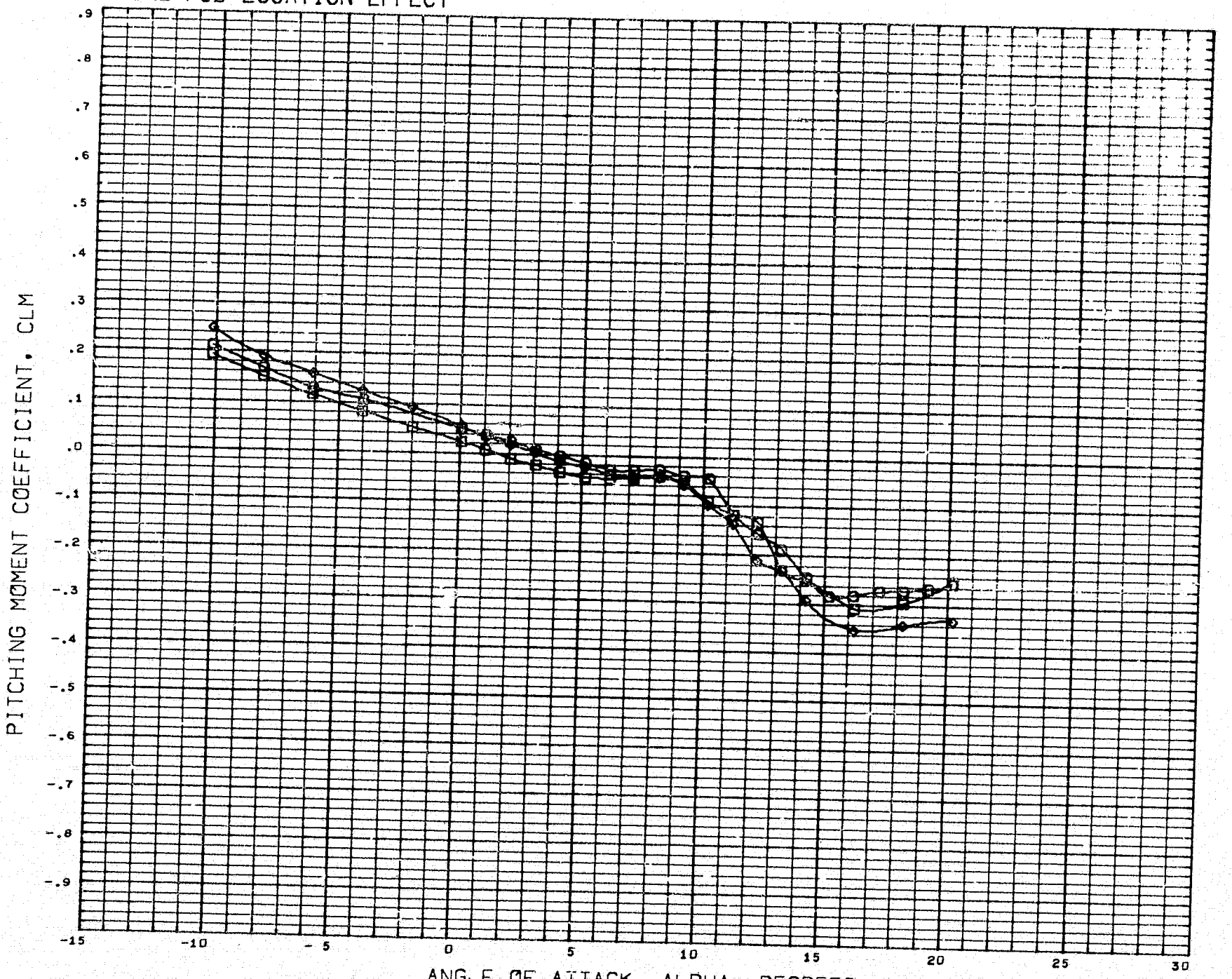
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7701	SQ. IN
REFL	6.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D2
(BCDA80)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR 0.000

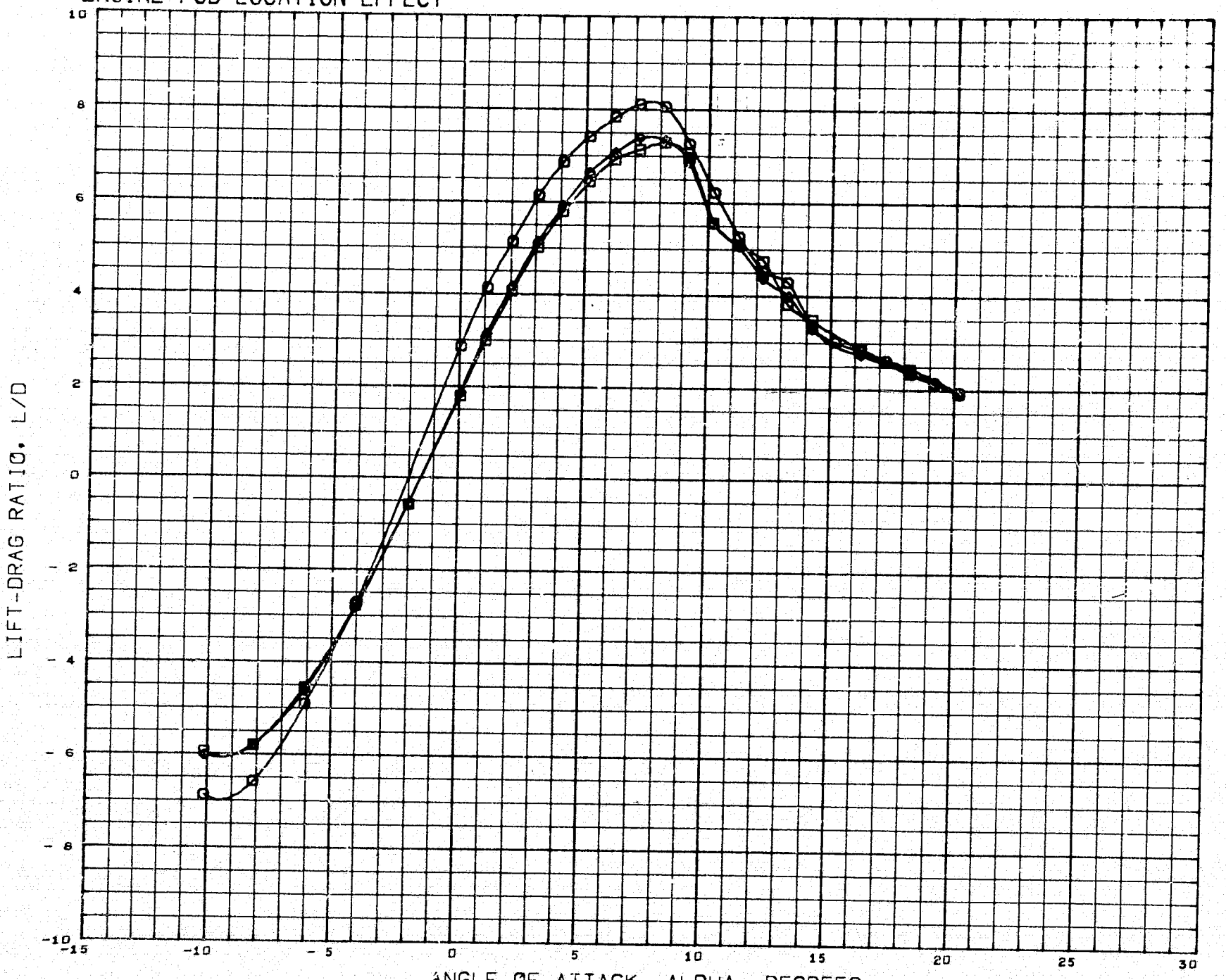
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA80)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR 0.000

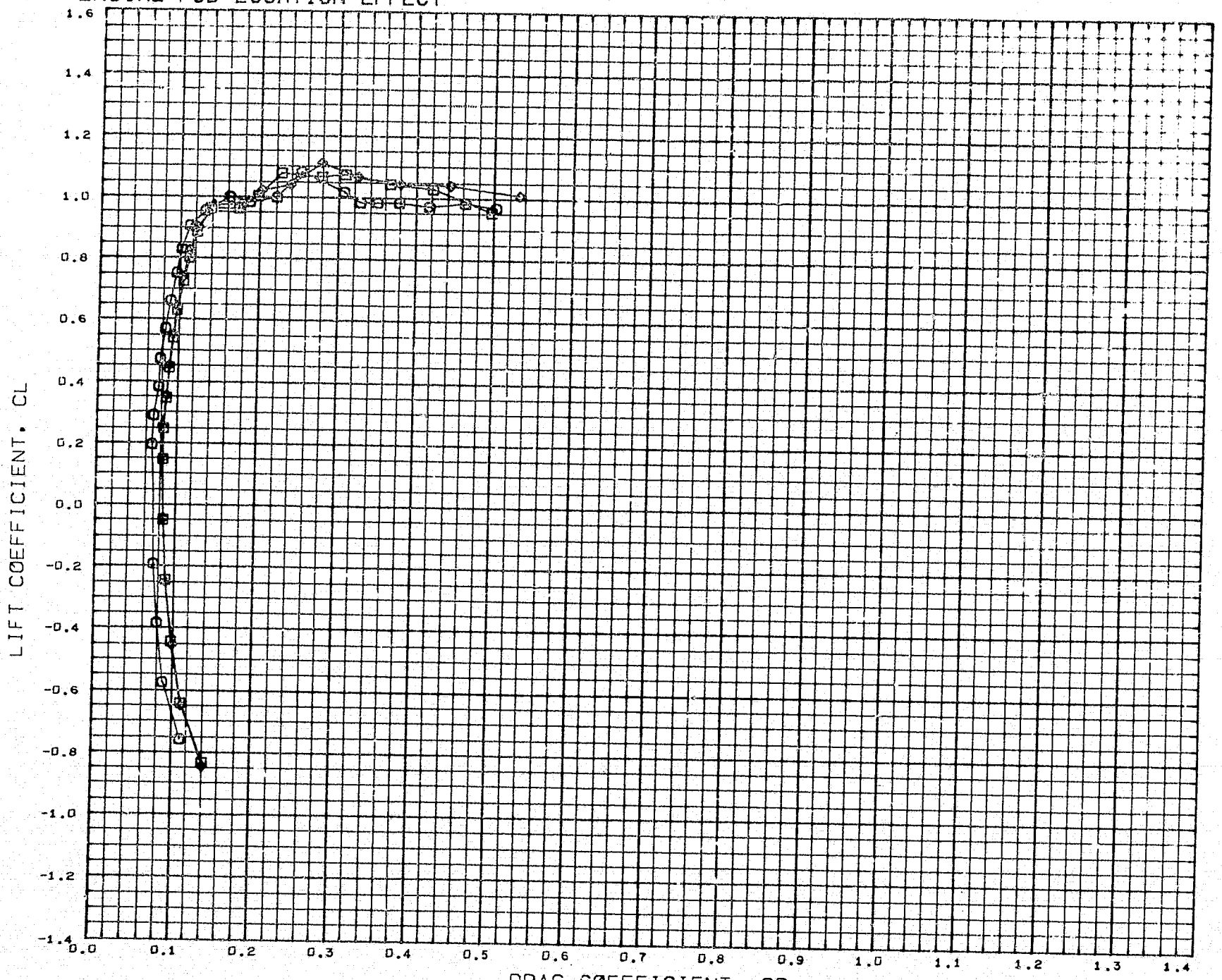
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 PC 01 LSWT 237 B4W2V1H1F3D2
(BCDA85)	◇	4.0 PC 01 LSWT 237 B4W2V1H1F1D2

PARAMETRIC VALUES

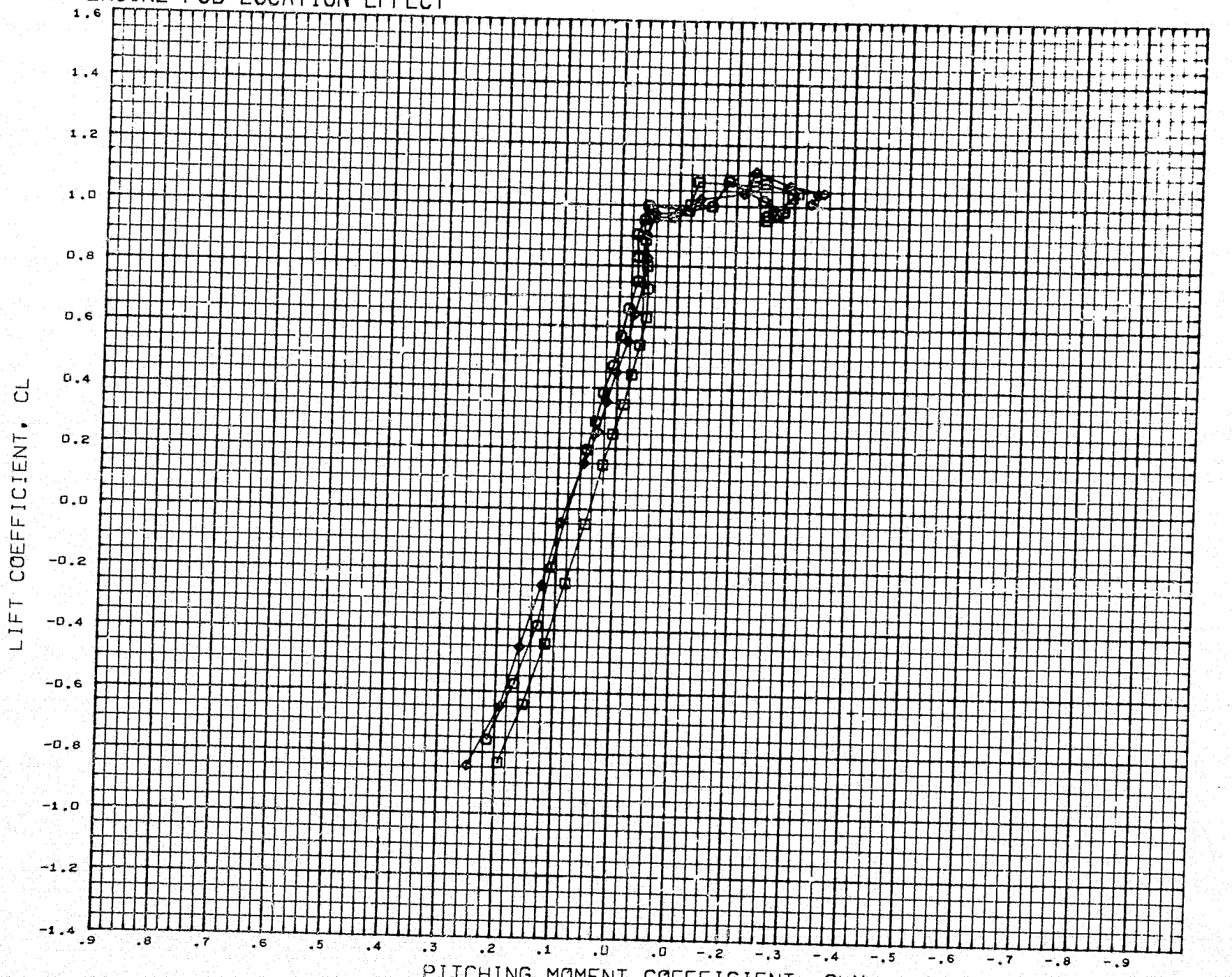
BETA	0.000	HTAIL	-	5.000	
SP-L	0.000	SP-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5105	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

* ELEVTR 0.000

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA80)'	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR 0.000

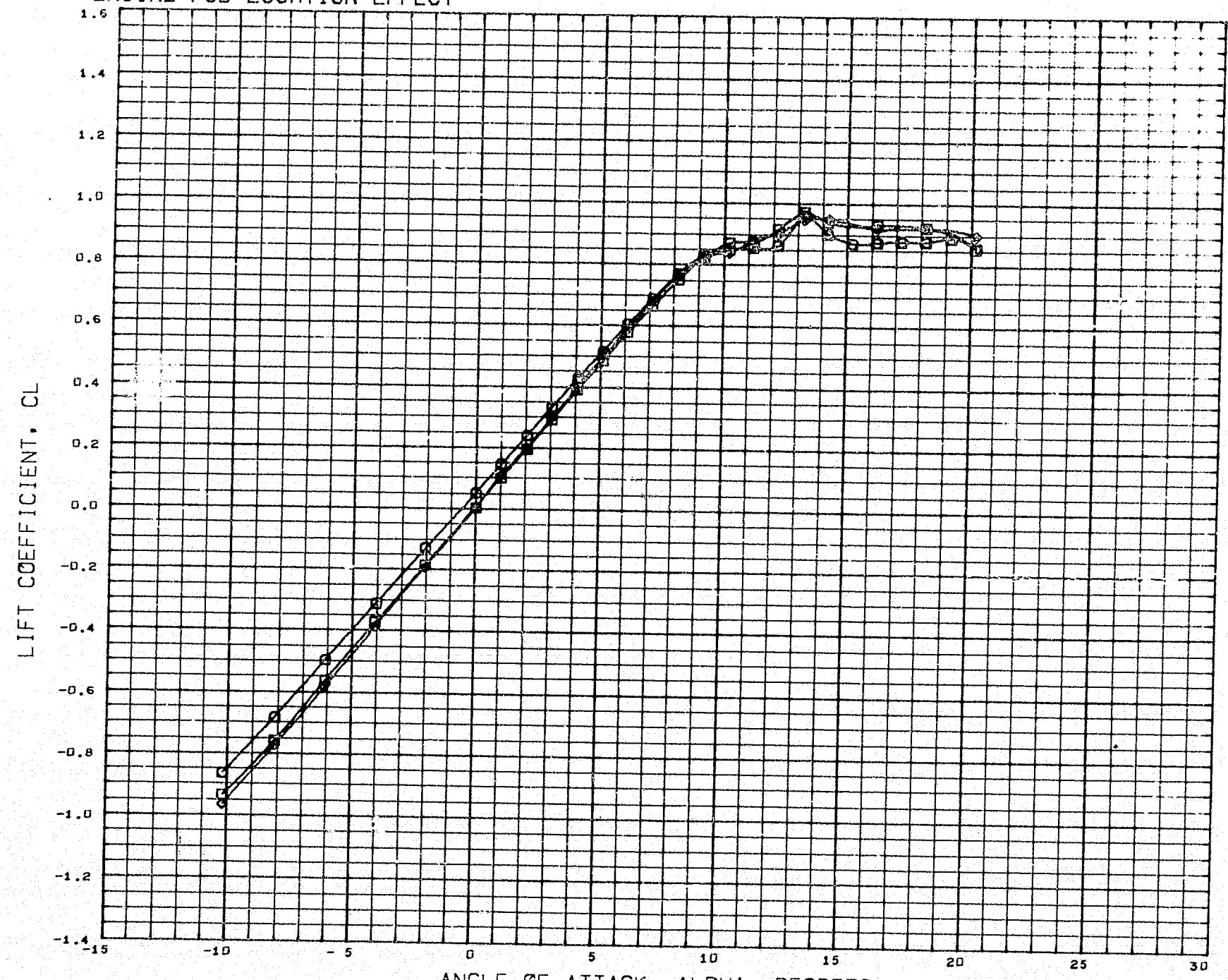
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5150	IN.
REFB	53.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD984)	○	4.0 FC 01 LSWT 237 B4W2V1H1 RUN 57
(BCDA78)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA79)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR - 10.000

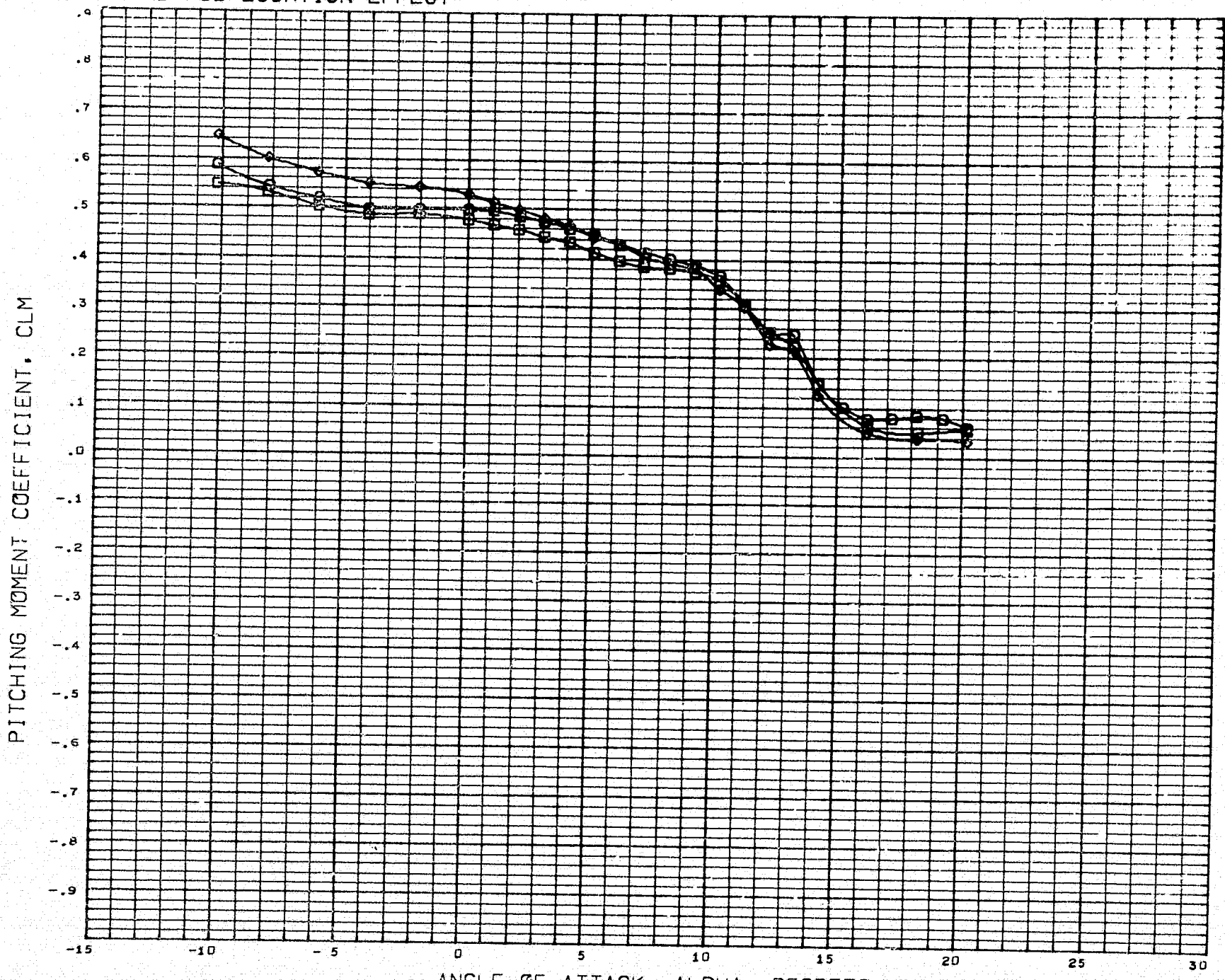
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5130	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCD984)	○	4.0 FC 01 LSWT 237 B4W2V1H1 RUN 57
(BCDA78)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D2
(BCDA79)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR - 10.000

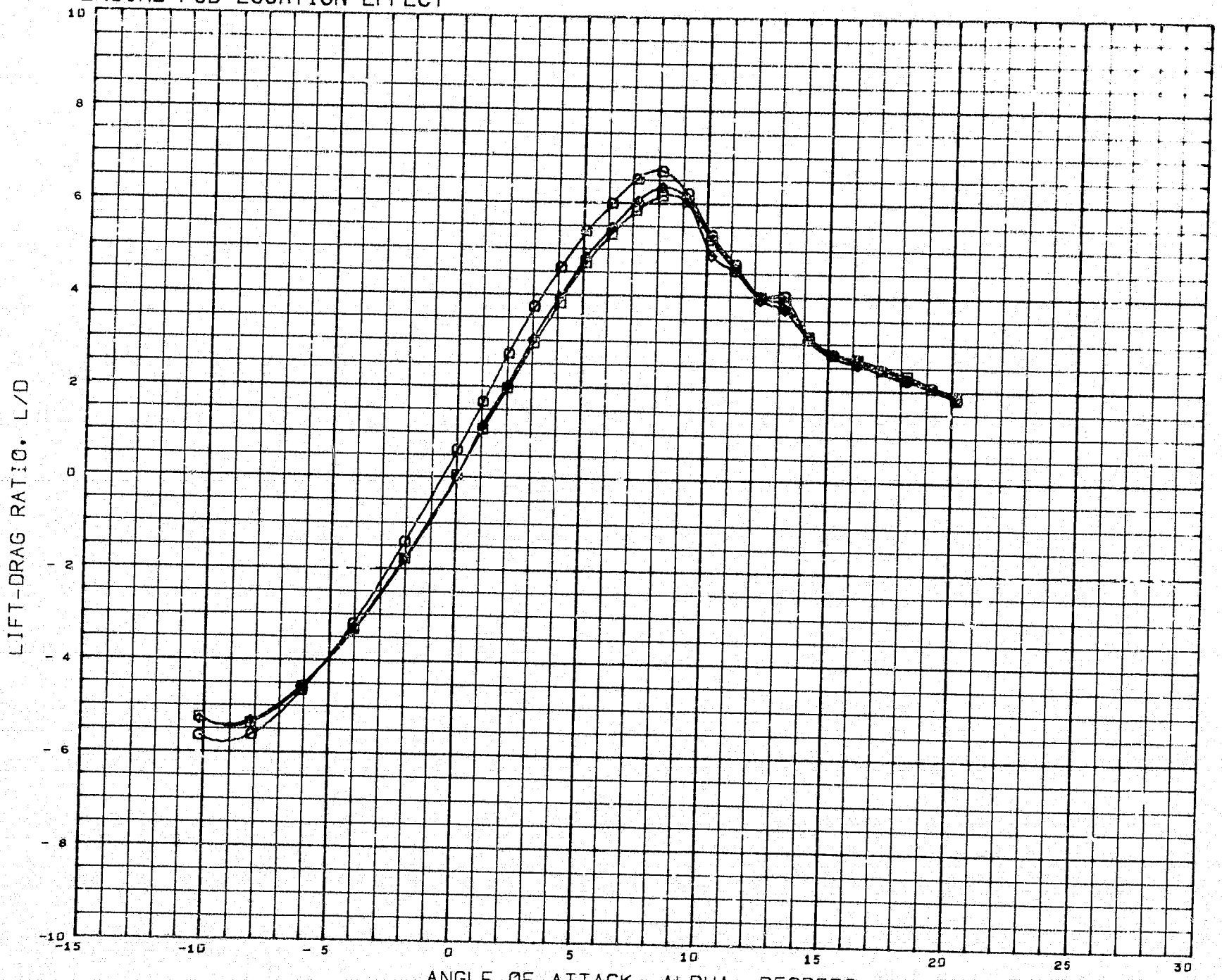
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	
(DCD984)	○	4.0 PC 01 LSWT 237	B4W2V1H1 RUN 57
(BCDA78)	□	4.0 PC 01 LSWT 237	B4W2V1H1P3D2
(BCDA79)	◇	4.0 PC 01 LSWT 237	B4W2V1H1P1D2

ELEVTR - 10.000

PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SF-L	0.000	SF-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	2 5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCD984)	○	4.0 FC 01 LSWT 237 B4W2V1H1 RUN 57
(BCDA78)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D2
(BCDA79)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR - 10.000

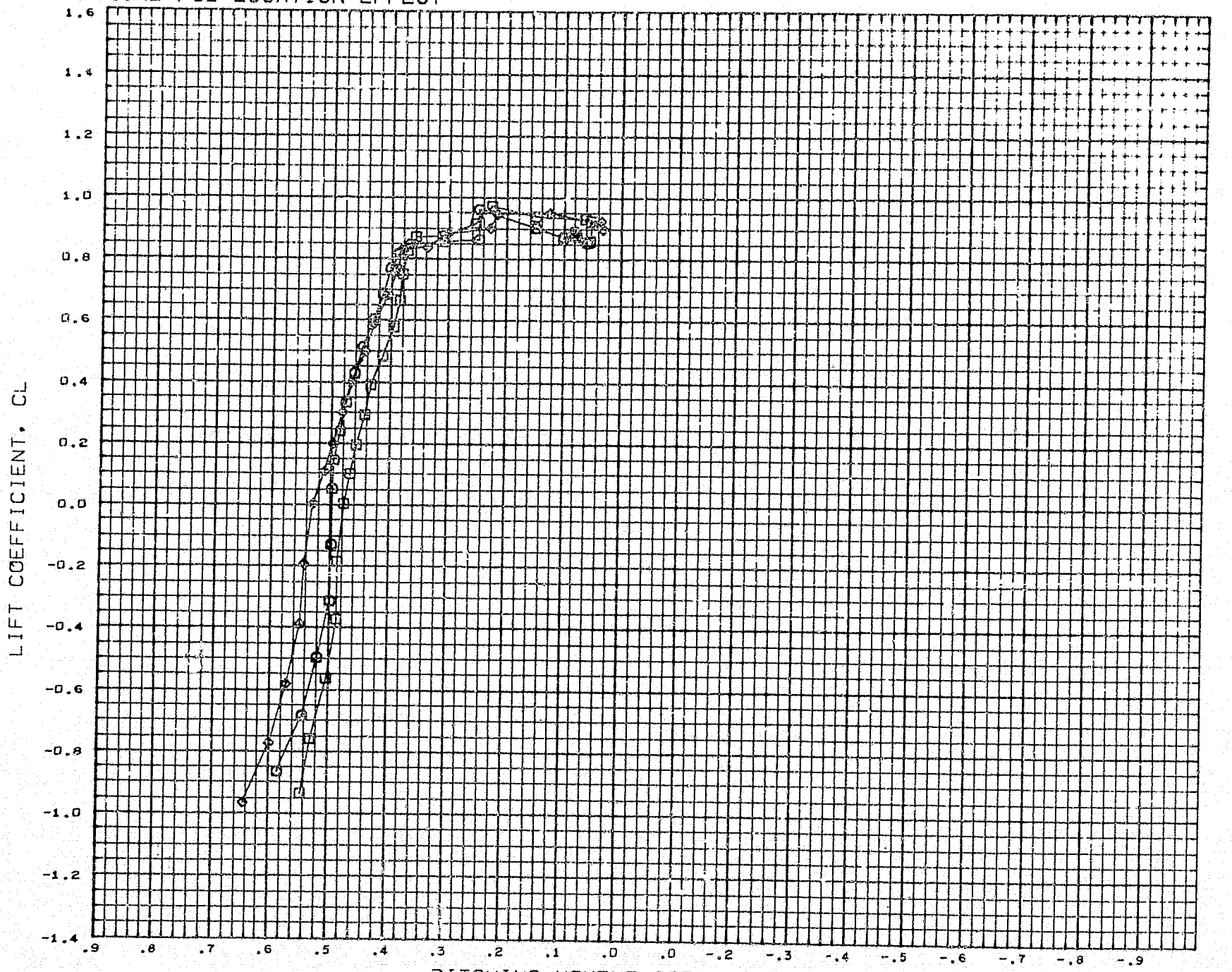
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	53.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCD984)	○	4.0 FC 01 LSWT 237 B4W2V1H1 RUN 57
(BCDA78)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA79)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR - 10.000

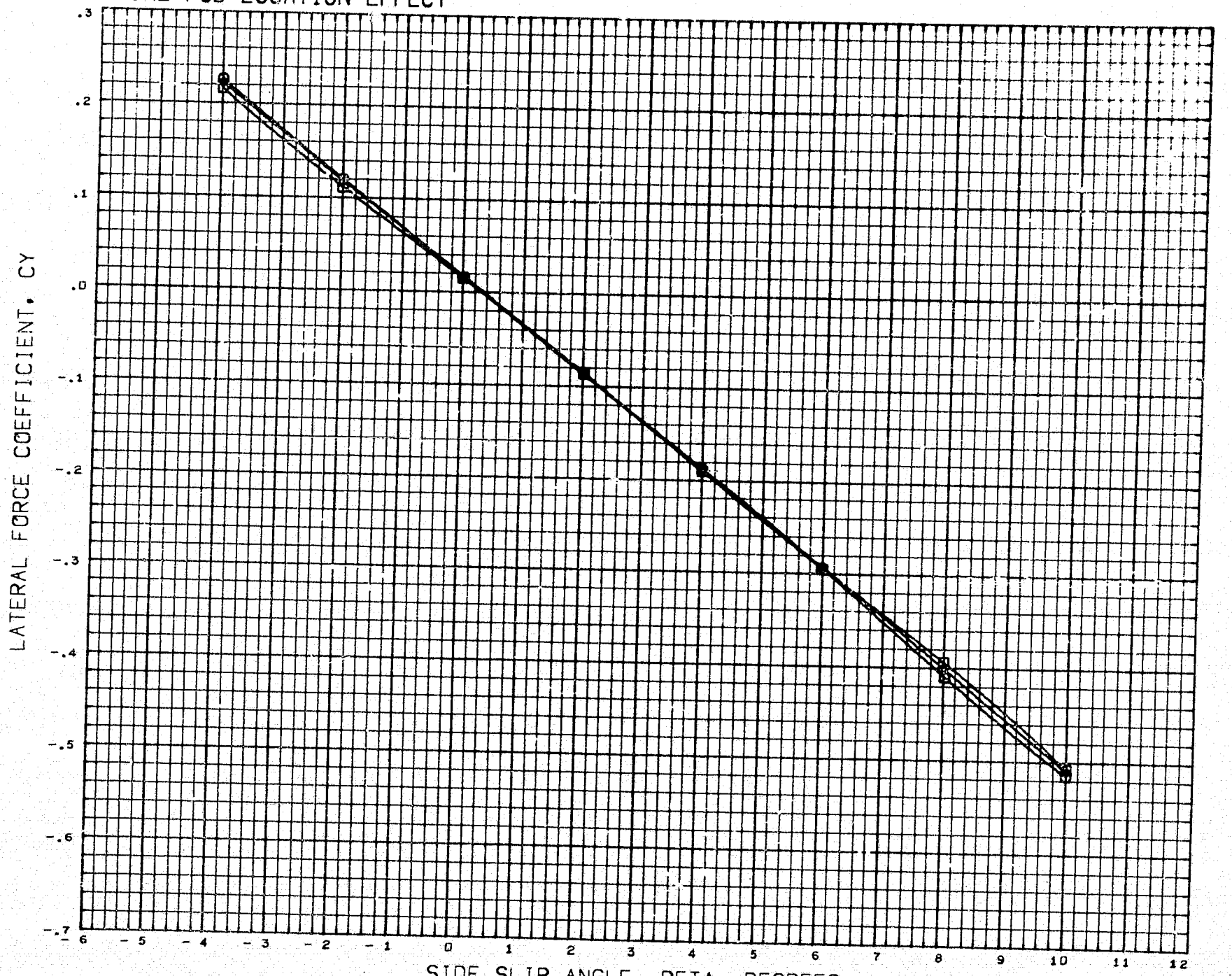
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5170	IN.
REFB	56.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA77)	□	4.0 PC 01 LSWT 237 B4W2V1H1F3D2
(BCDA82)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P1D2

PARAMETRIC VALUES

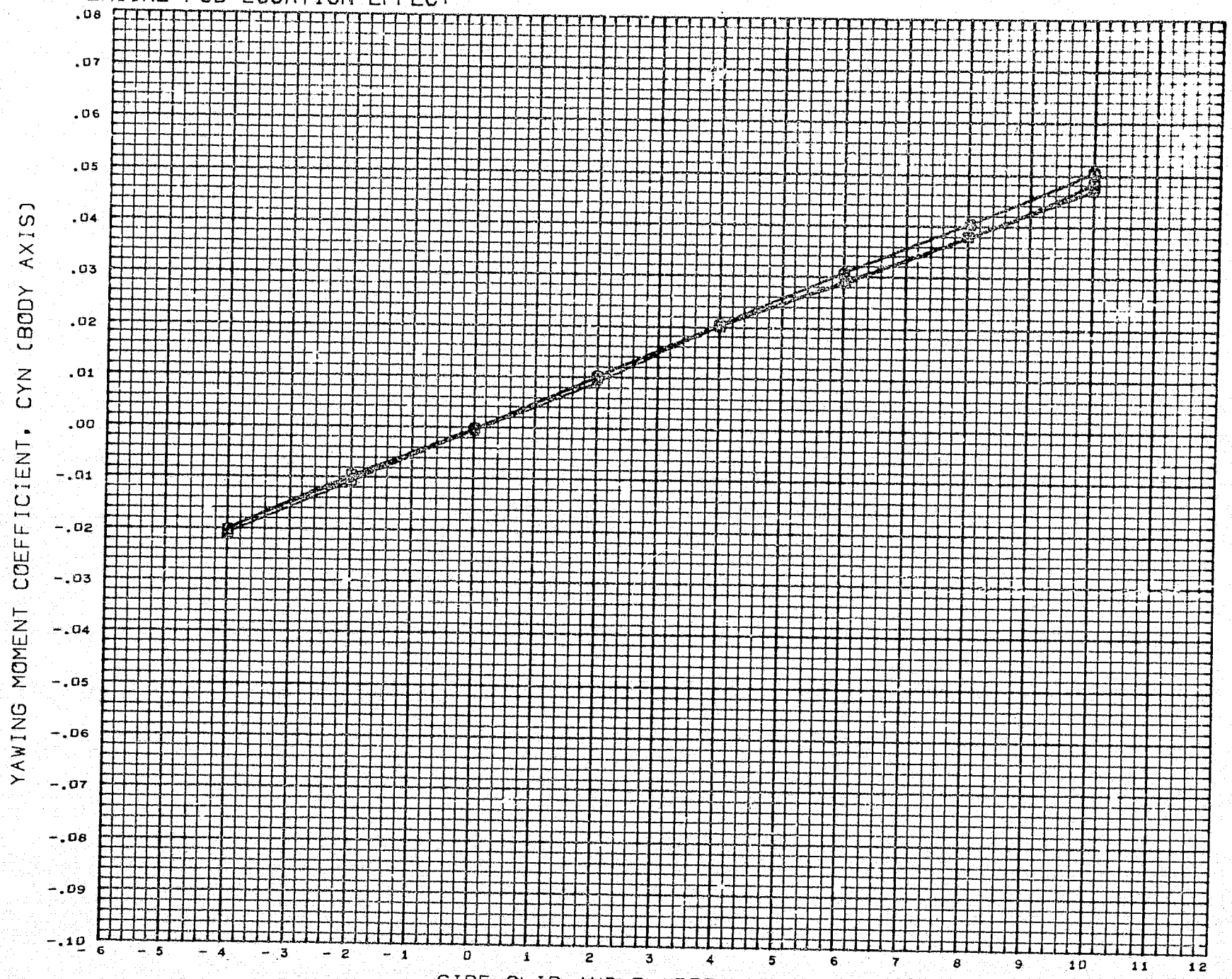
ALPHA 6.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5190	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA77)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA82)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR 0.000

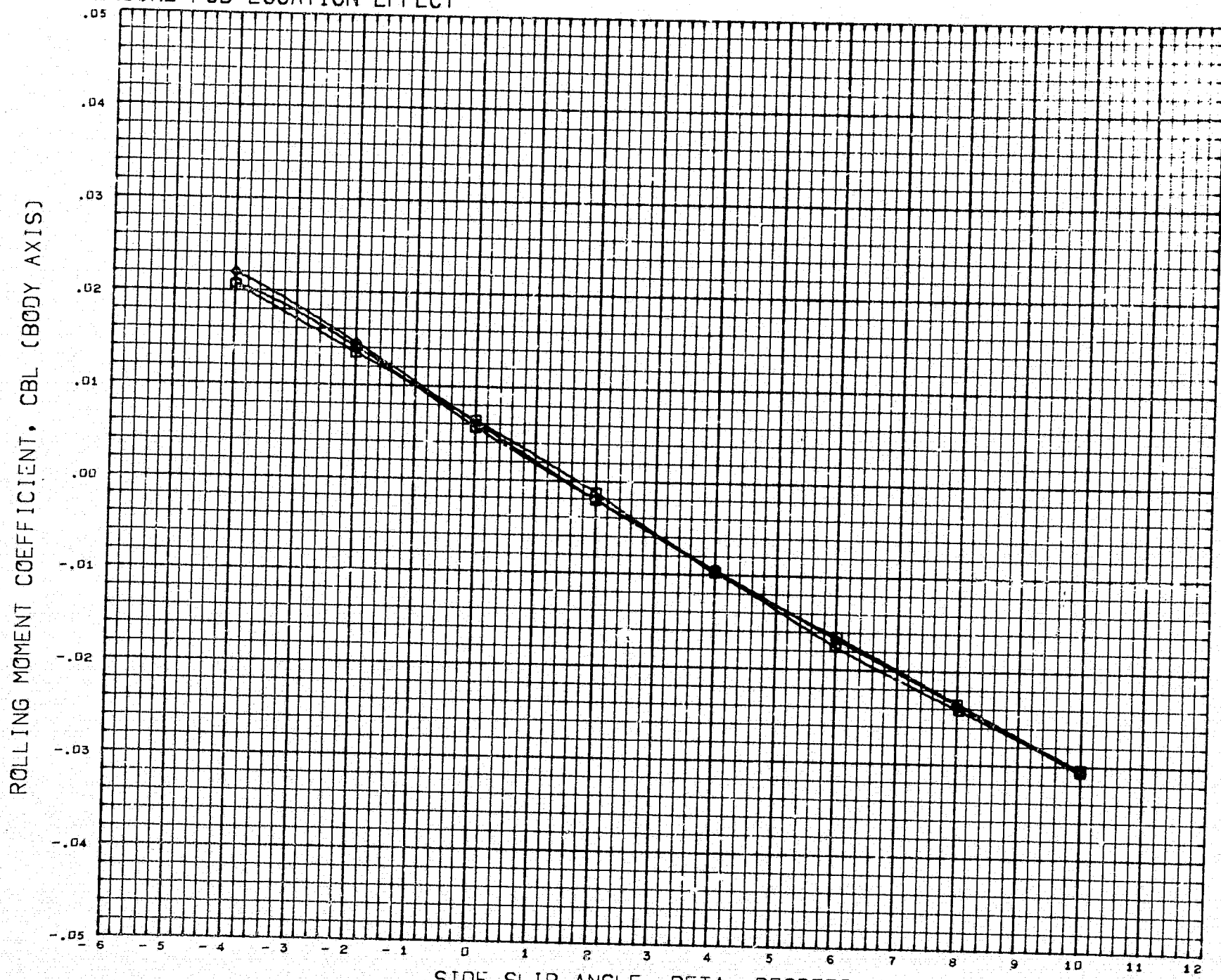
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.0400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B1W2V1H1
(BCDA77)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D2
(BCDA82)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR 0.000

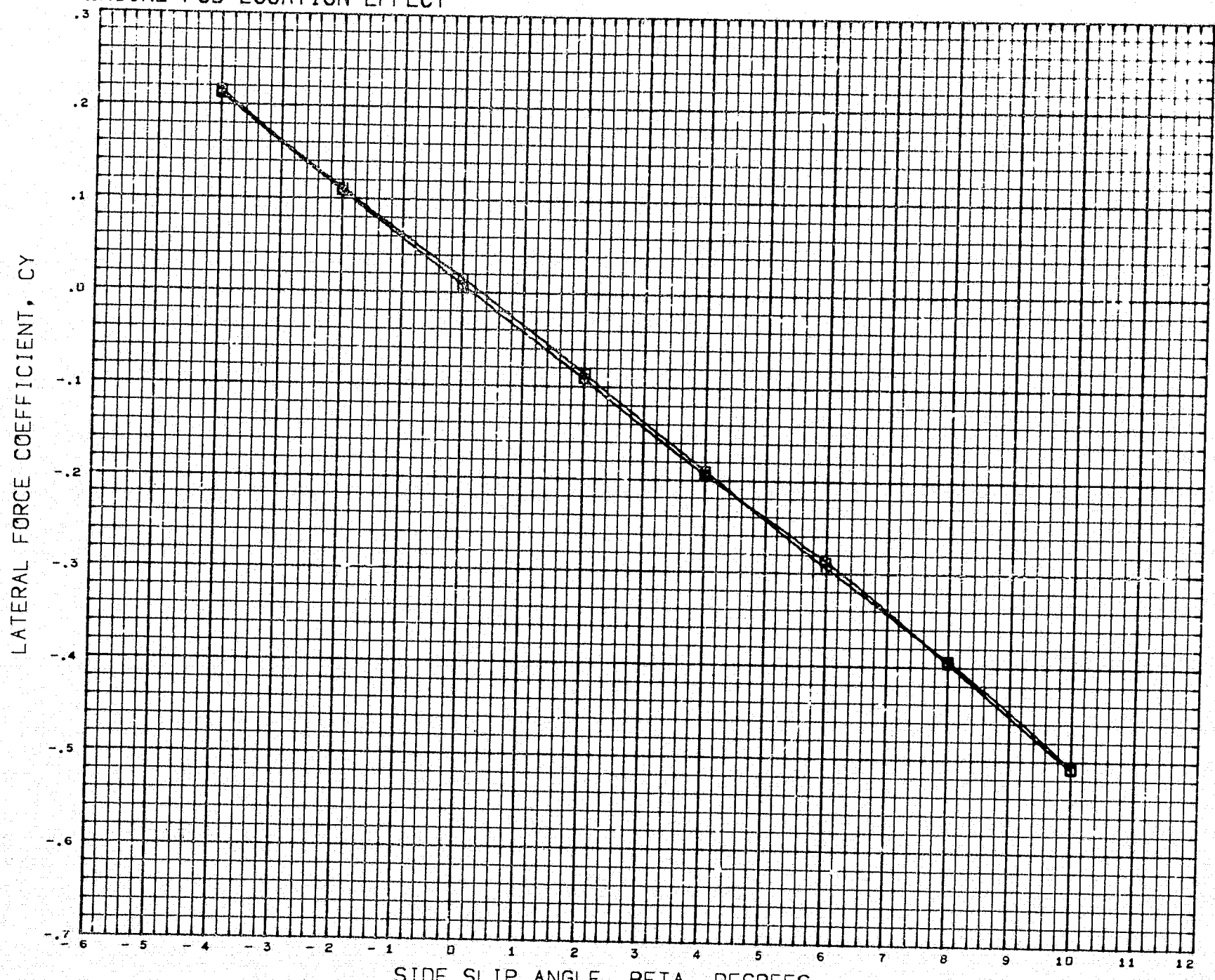
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	5.5150	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



SYMBOL	ALPHA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	ATAIL	- 5.000
□	6.000				

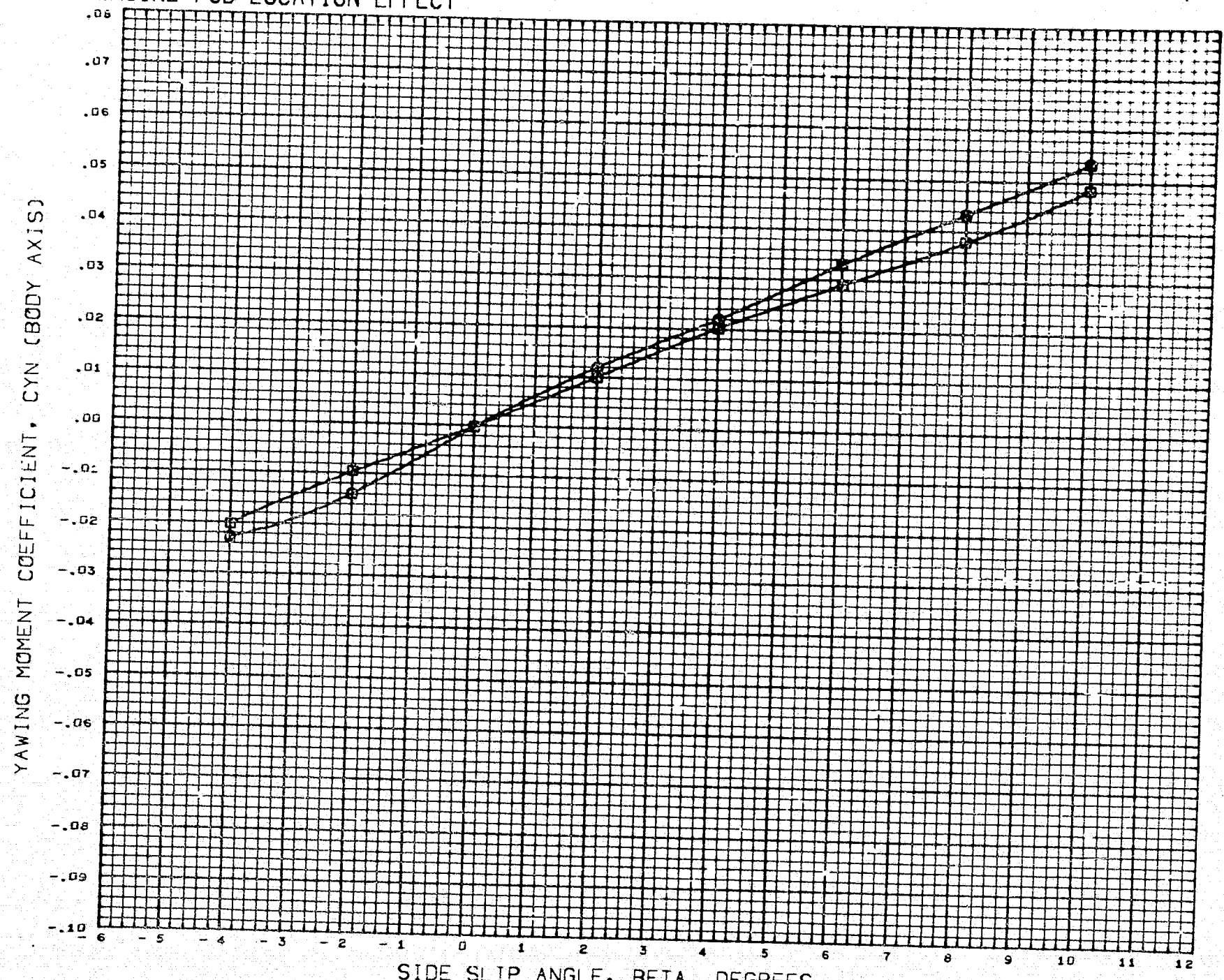
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V#E

4.0 PC 01 LSWT 237 B4W2V1H1P3D2

ENGINE POD LOCATION EFFECT



SYMBOL	ALPHA
□	0.000
□	6.000

PARAMETRIC VALUES

ELEVTR 0.000 HTAIL - 5.000

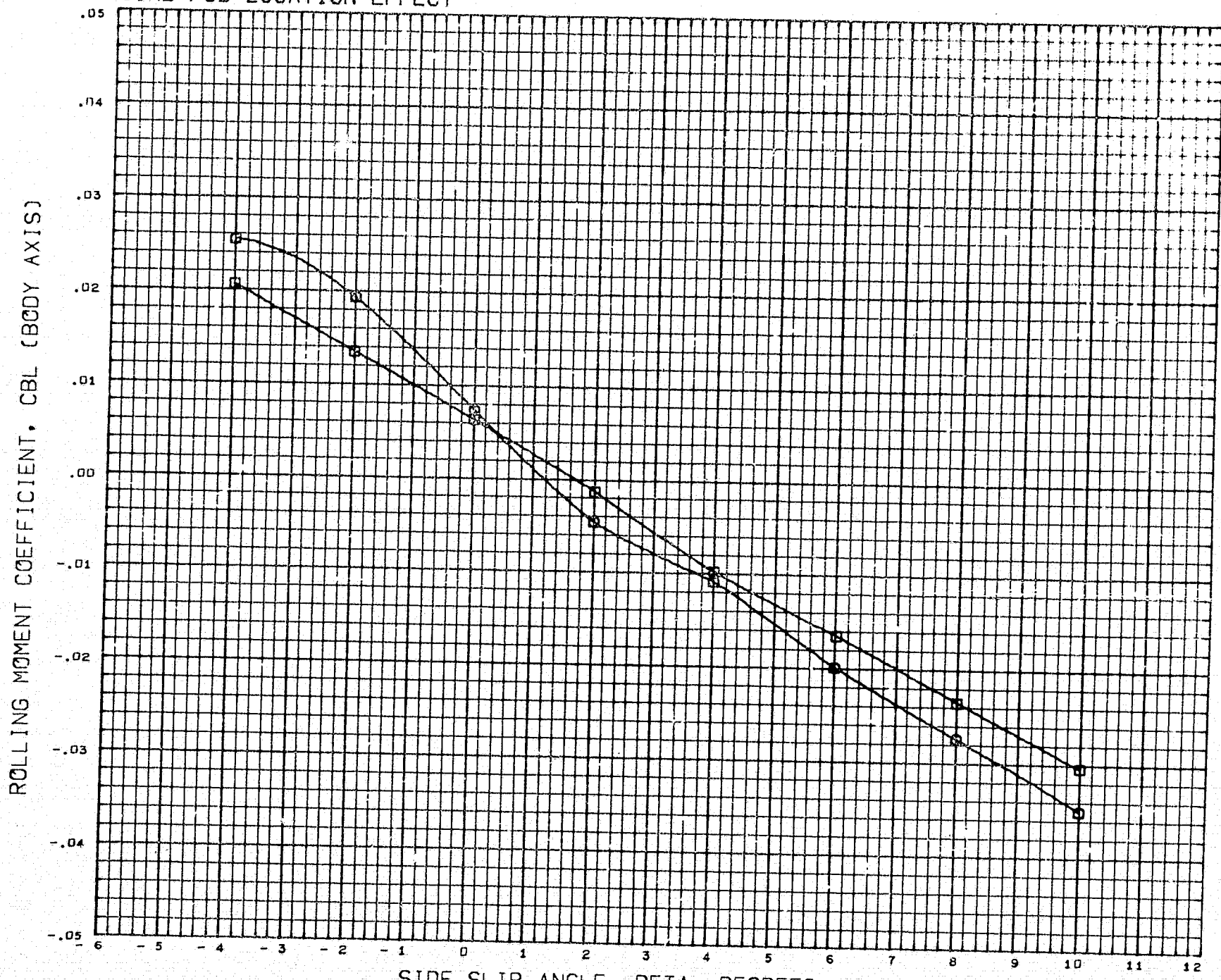
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	6.3100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V=E

4.0 PC 01 LSWT 237 B4W2V1H1P3D2

ENGINE POD LOCATION EFFECT



SYMBOL	ALPHA
□	0.000
□	6.000

PARAMETRIC VALUES

ELEVTR 0.000 HTAIL - 5.000

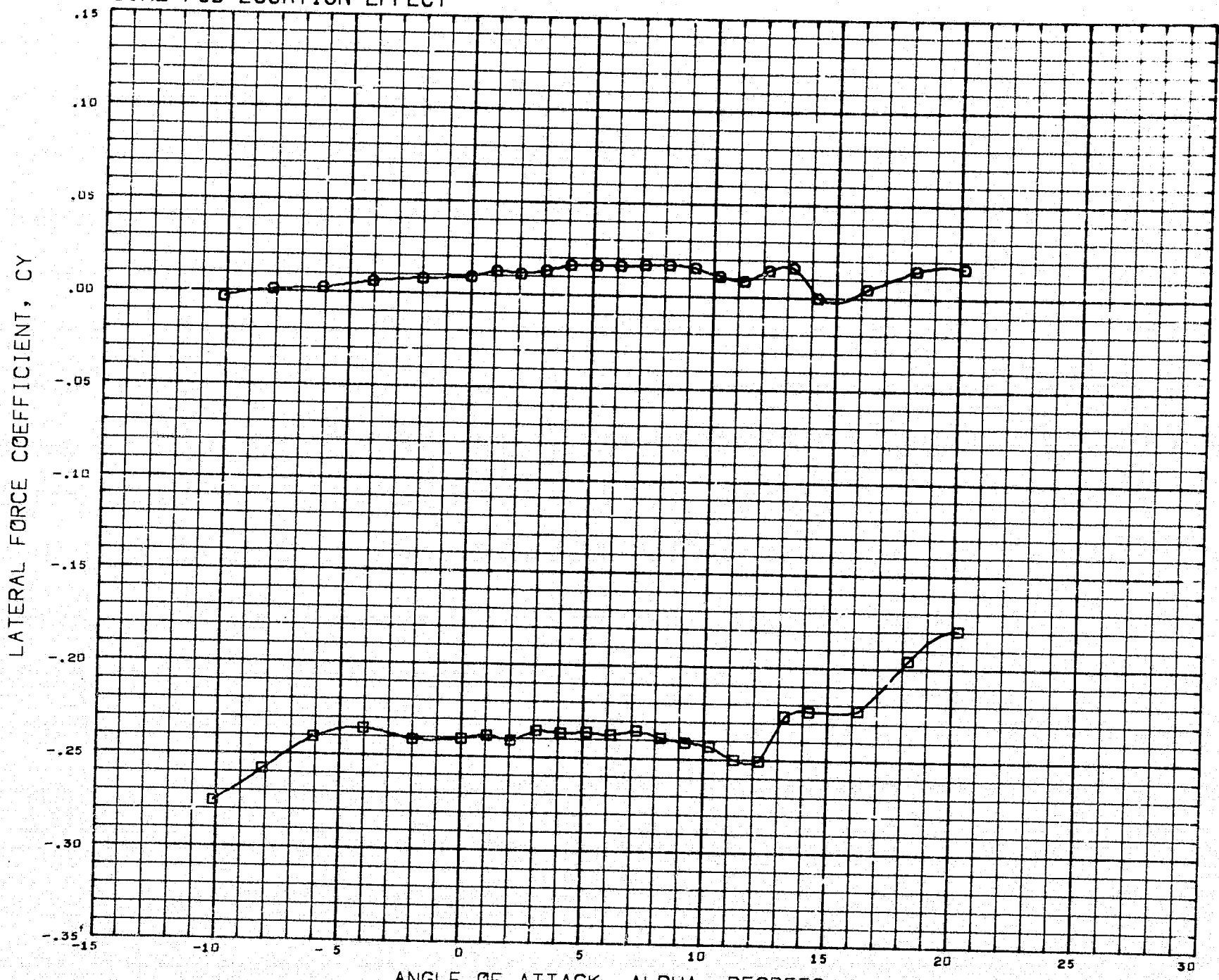
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3900	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1P302

ENGINE POD LOCATION EFFECT



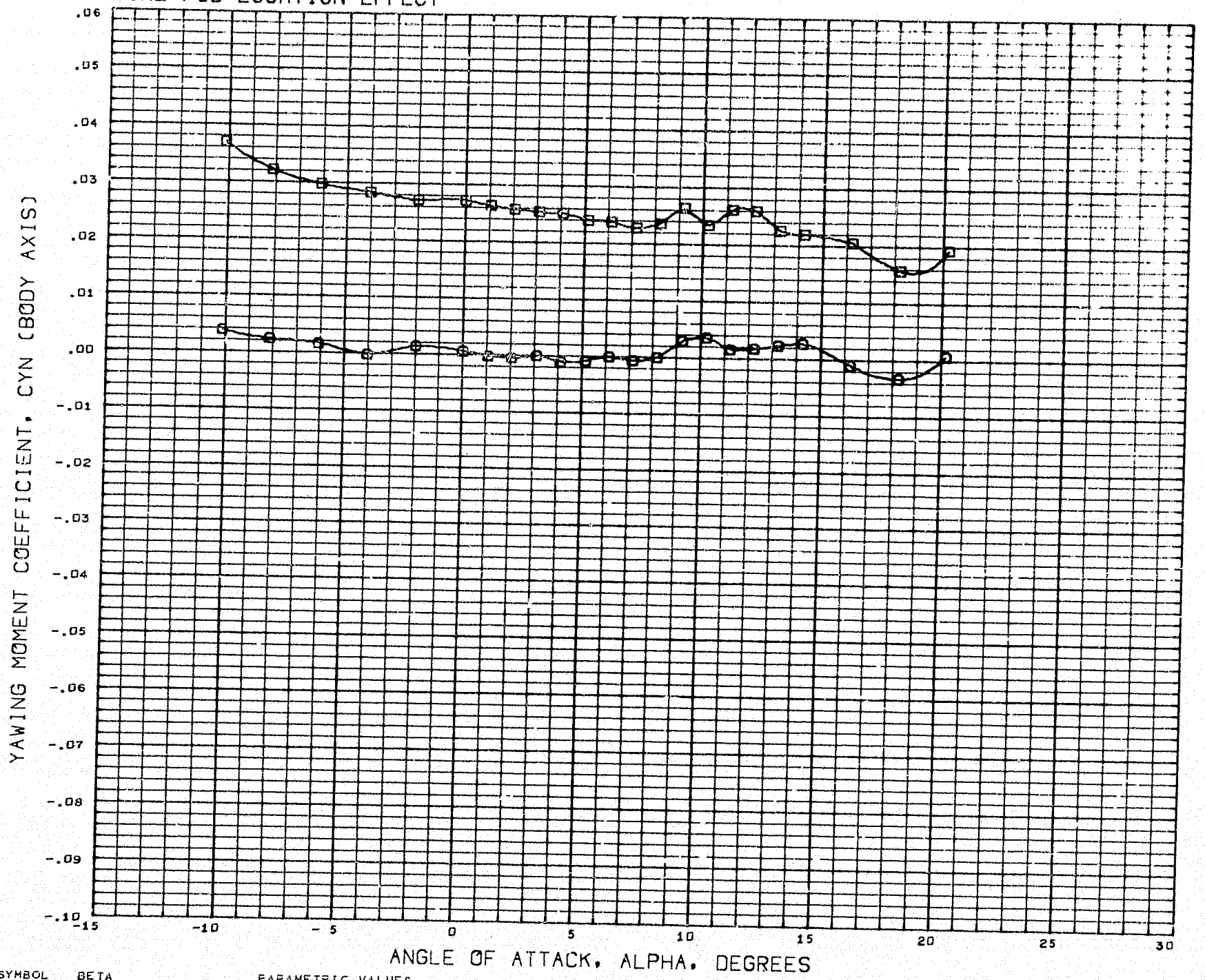
SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

DATA HIST. CODE V*EM

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

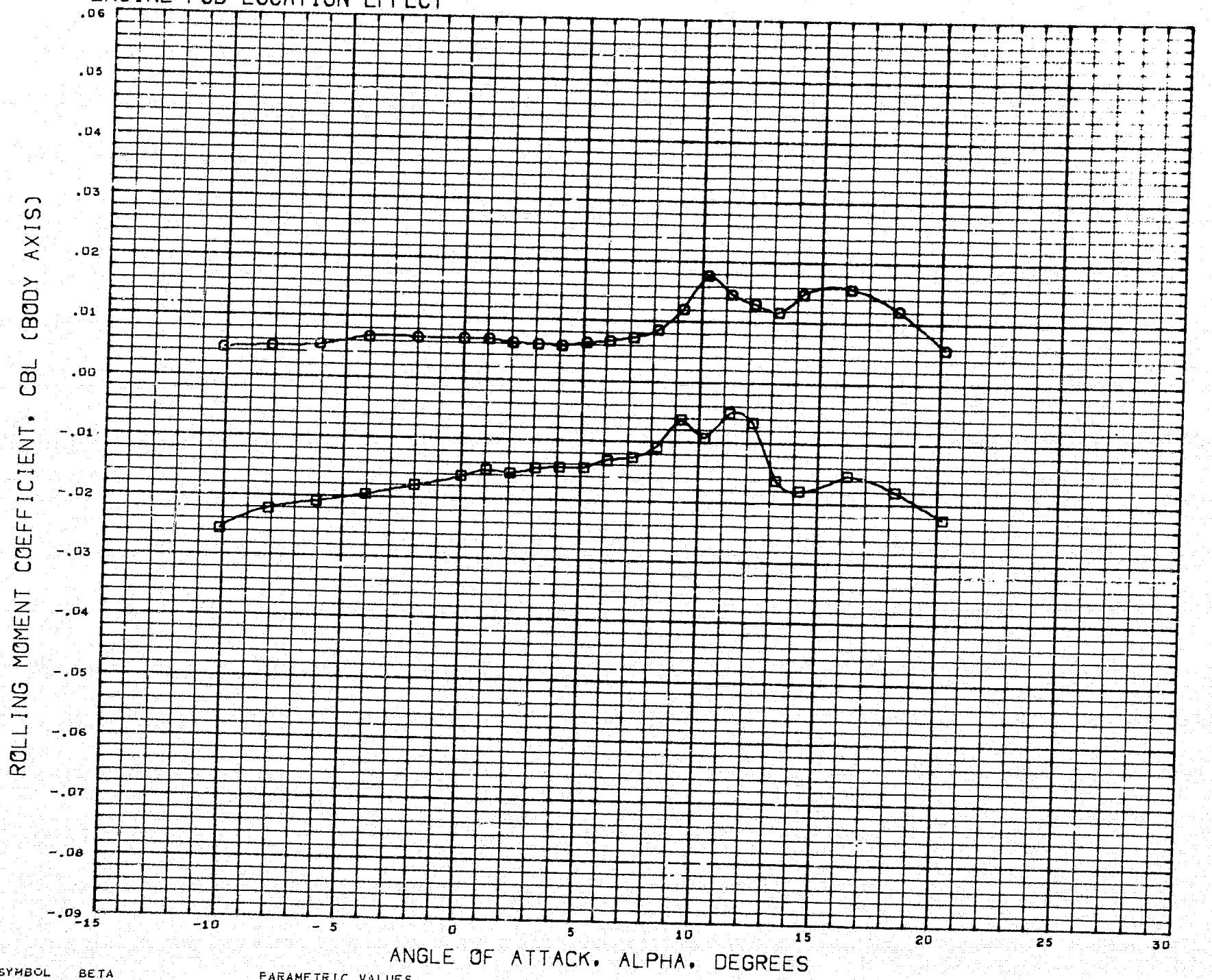
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V÷EM

4.0 PC 01 LSWT 237 B4W2V1H1P3D2

ENGINE POD LOCATION EFFECT



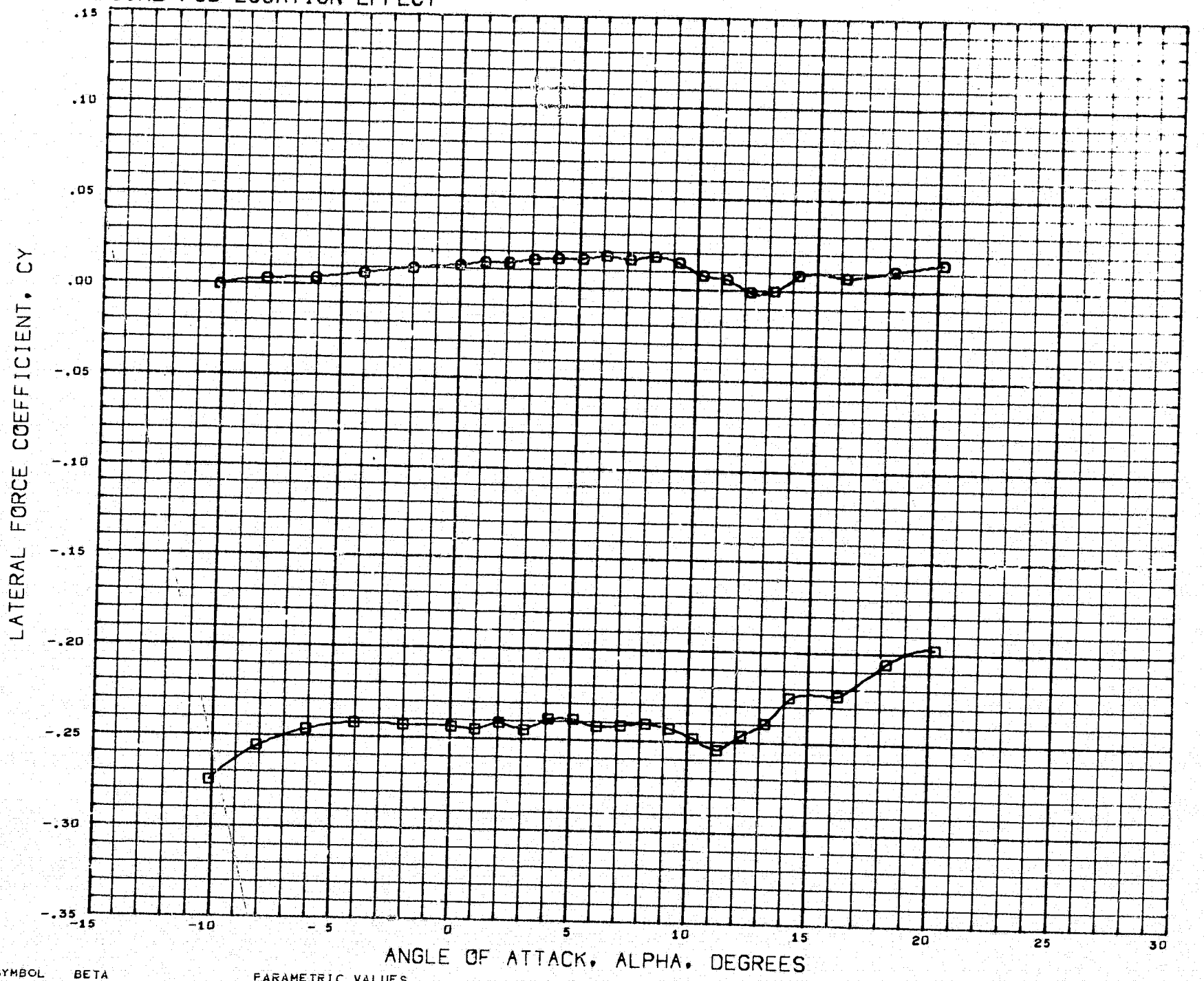
SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*EM

ENGINE POD LOCATION EFFECT



SYMBOL	BETA	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

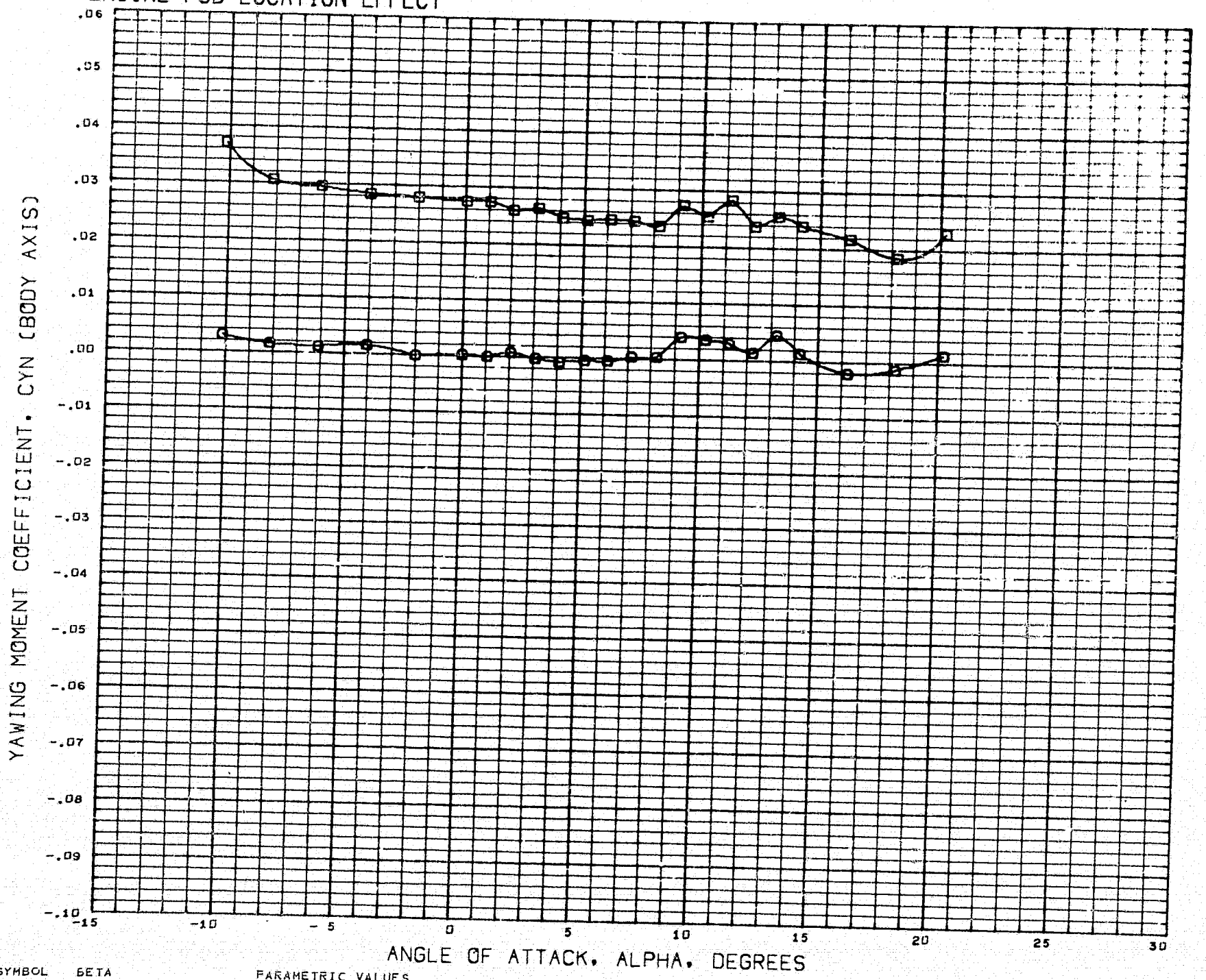
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4W2V1H1P1D2

ENGINE POD LOCATION EFFECT



SYMBOL	BETA	PARAMETRIC VALUES			
○	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

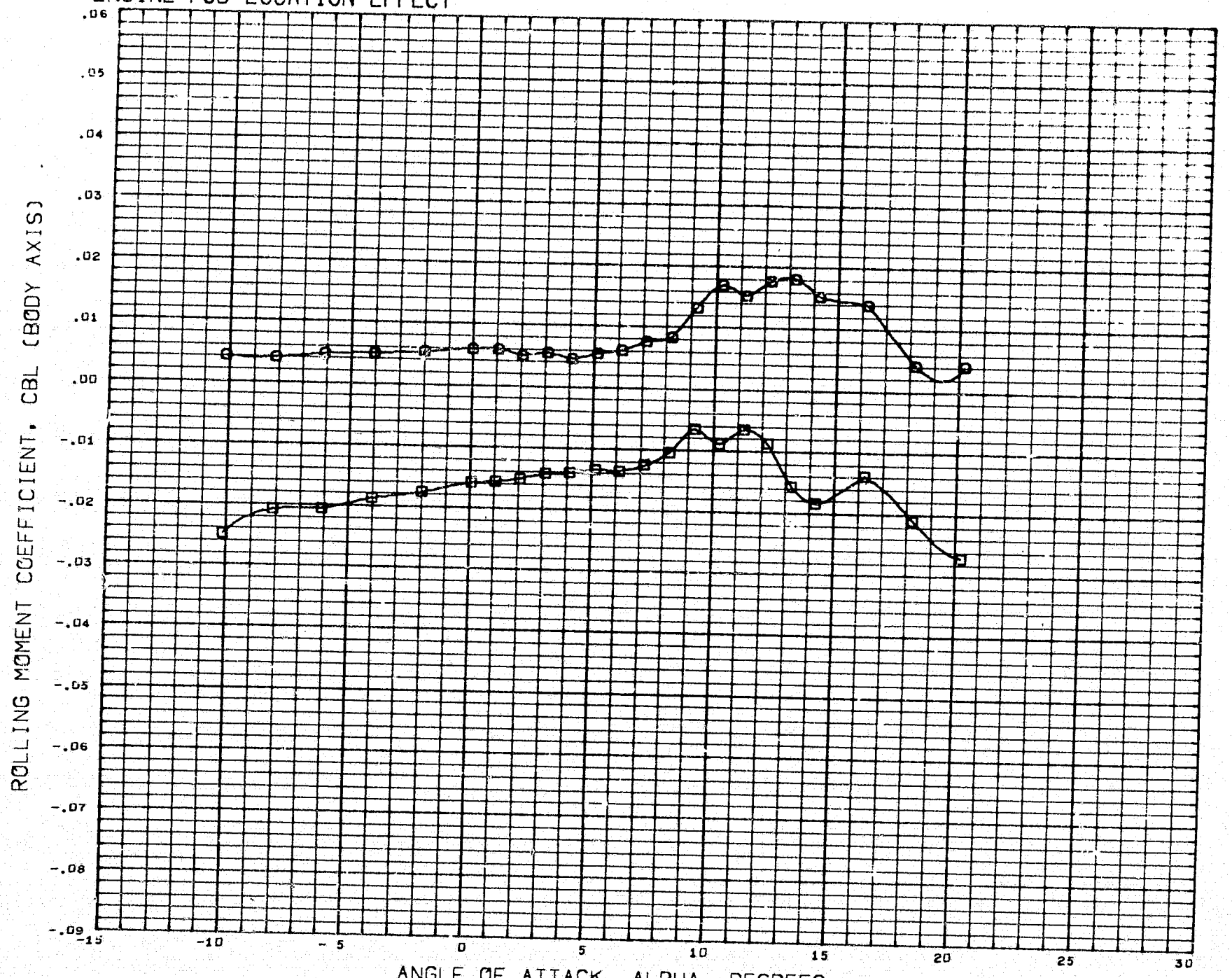
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9403	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1P1D2

ENGINE POD LOCATION EFFECT



SYMBOL	BETA		PARAMETRIC VALUES		
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

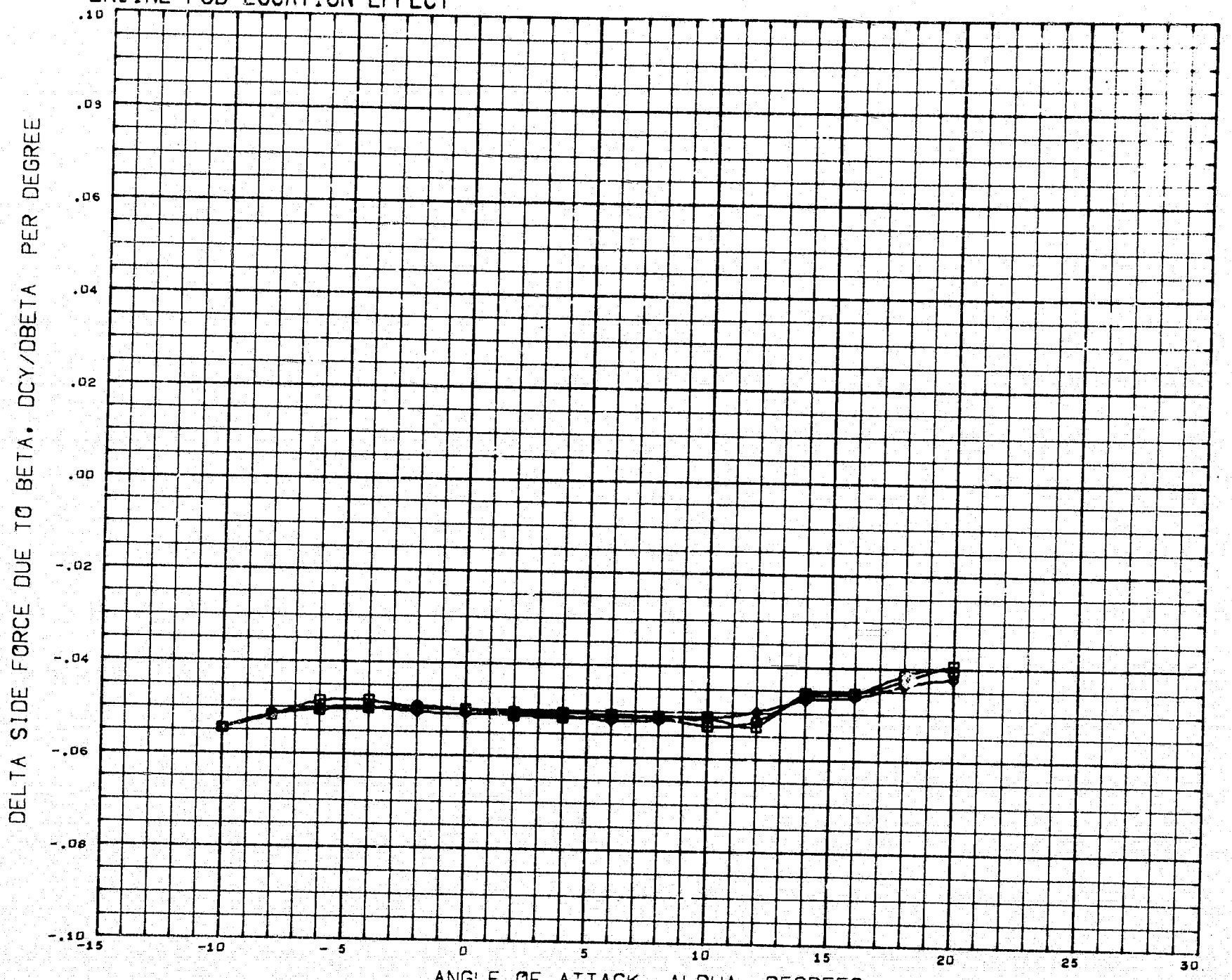
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1P1D2

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(FCDA74)	□	4.0 PC 01 LSWT 237 B4W2V1H1F3D2
(FCDA80)	◇	4.0 PC 01 LSWT 237 B4W2V1H1F1D2

ELEVTR 0.000

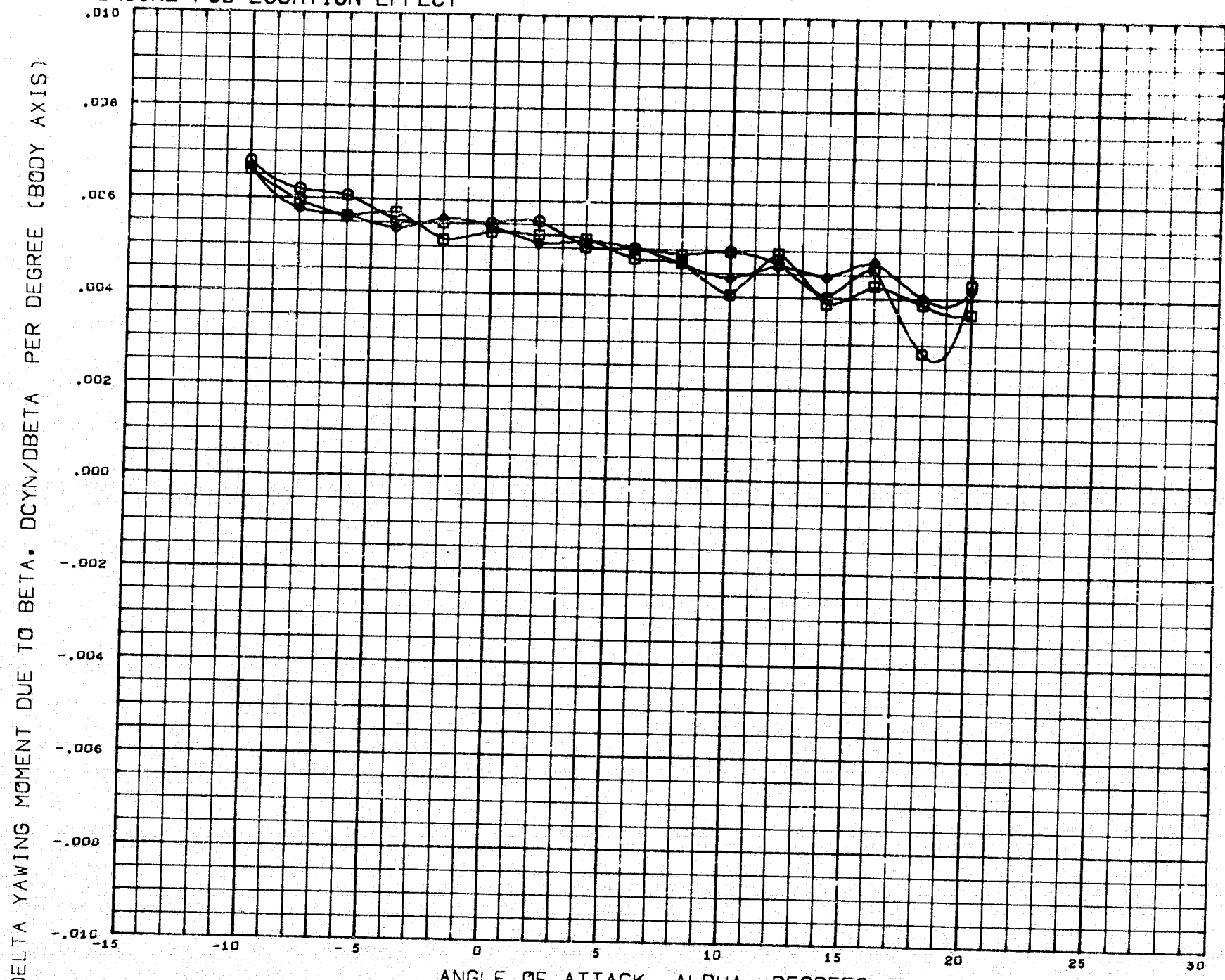
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1F3D2
(FCDA80)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F1D2

PARAMETRIC VALUES

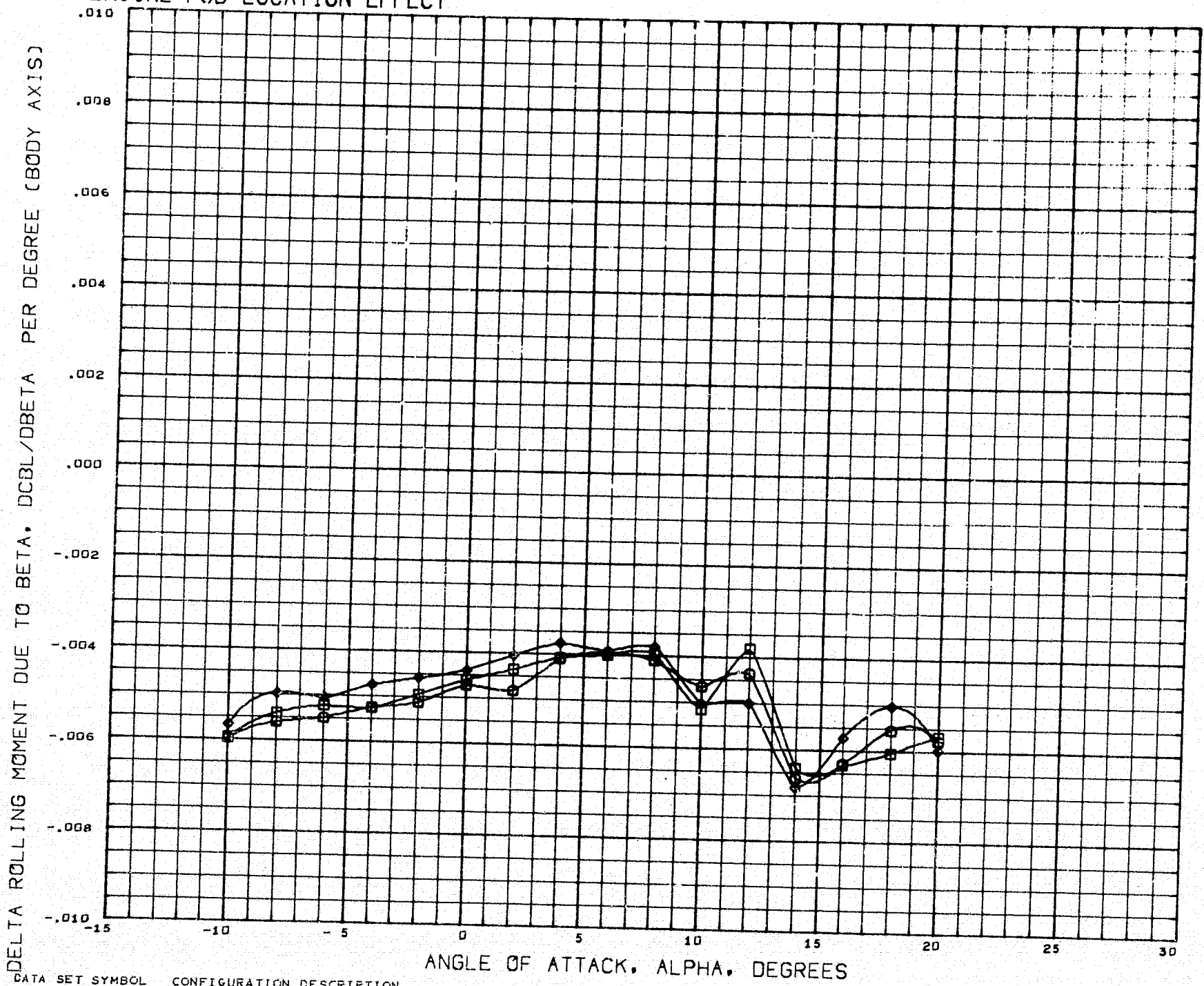
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.5400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ENGINE POD LOCATION EFFECT



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(FCDA80)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR 0.000

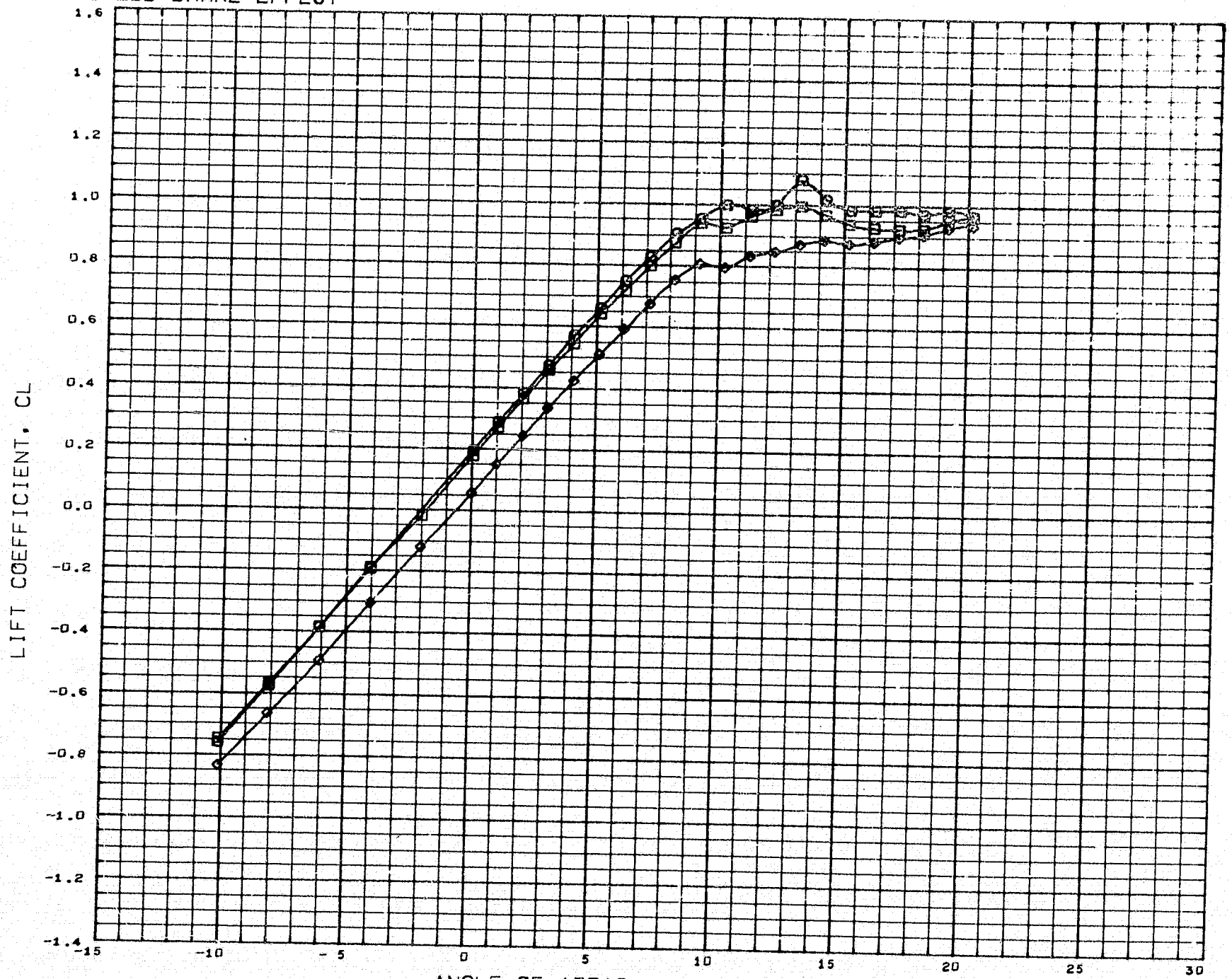
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1S32

ELEVTR 0.000

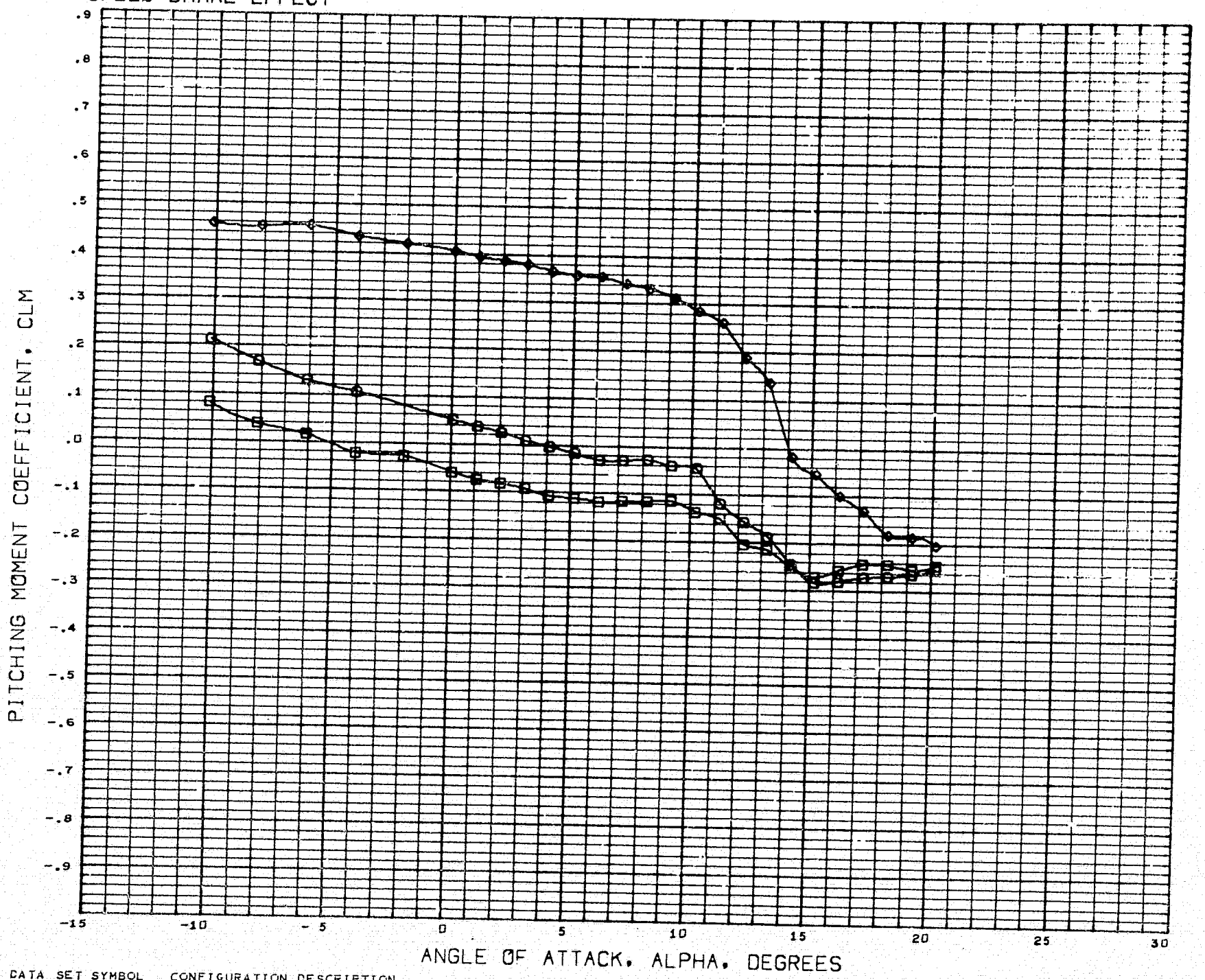
PARAMETRIC VALUES

BETA	0.000	HTAIL	-5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1SE2

ELEVTR 0.000

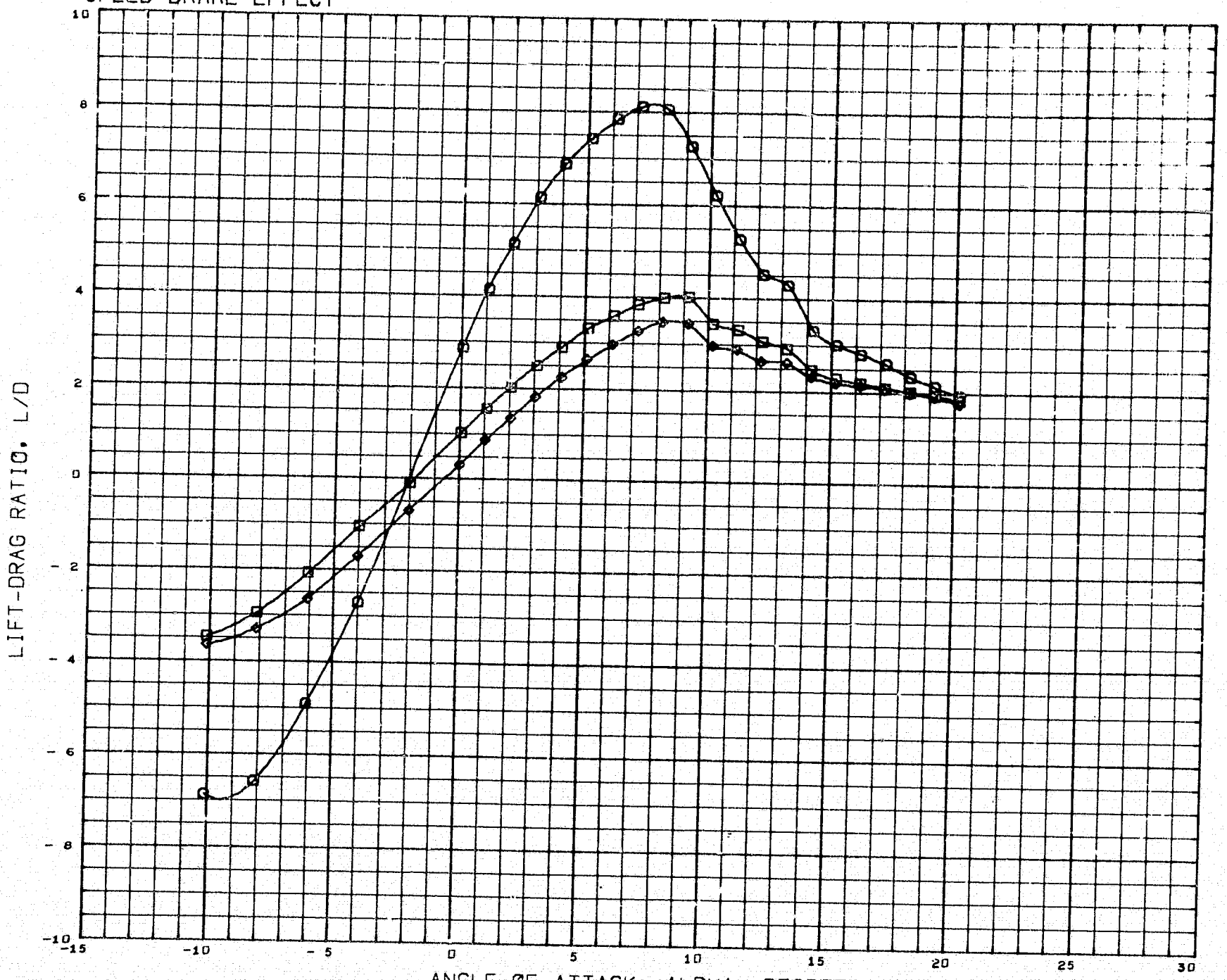
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1SB2

ELEVTR 0.000

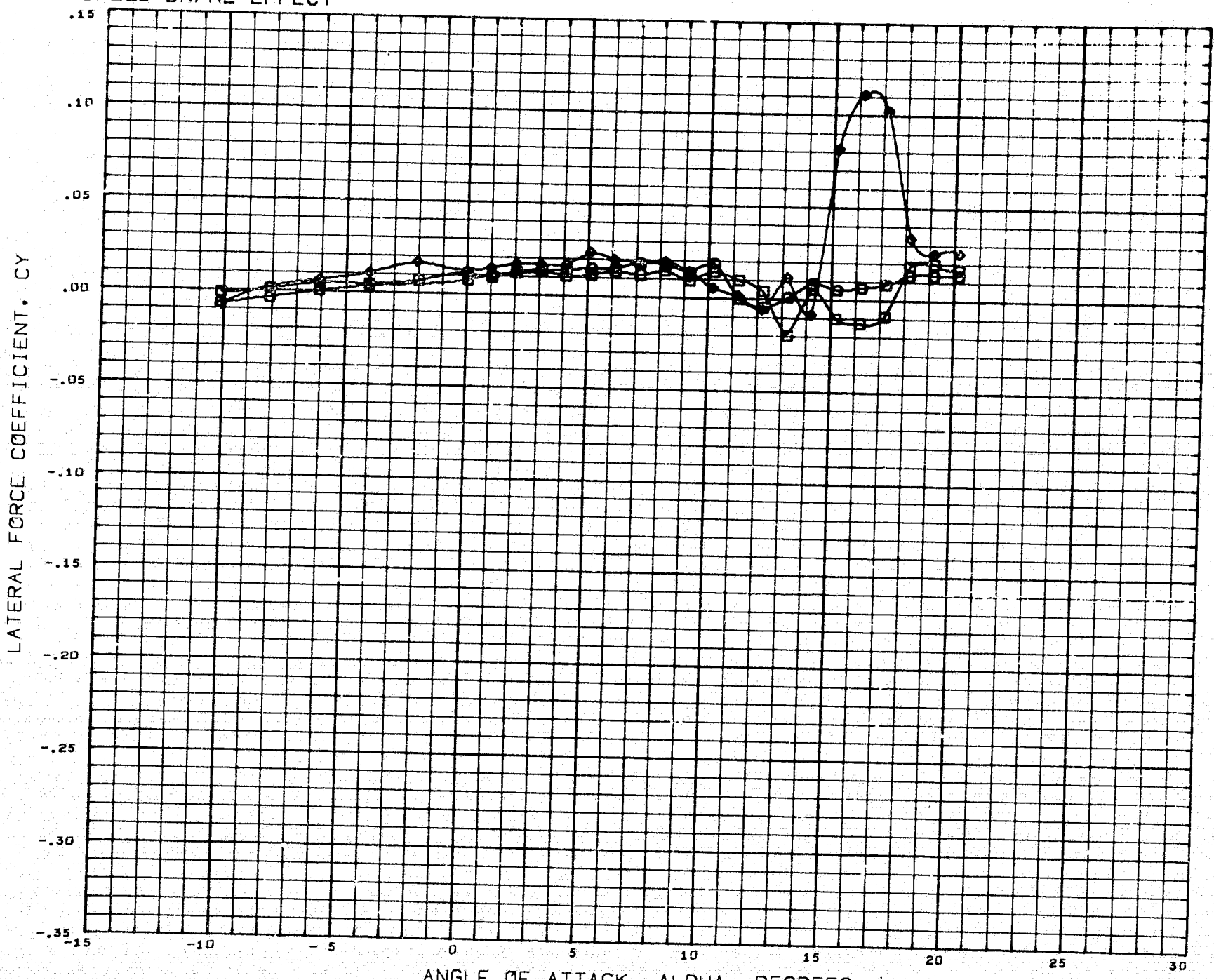
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 PC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 PC 01 LSWT 237 B4W2V1H1SB2

PARAMETRIC VALUES

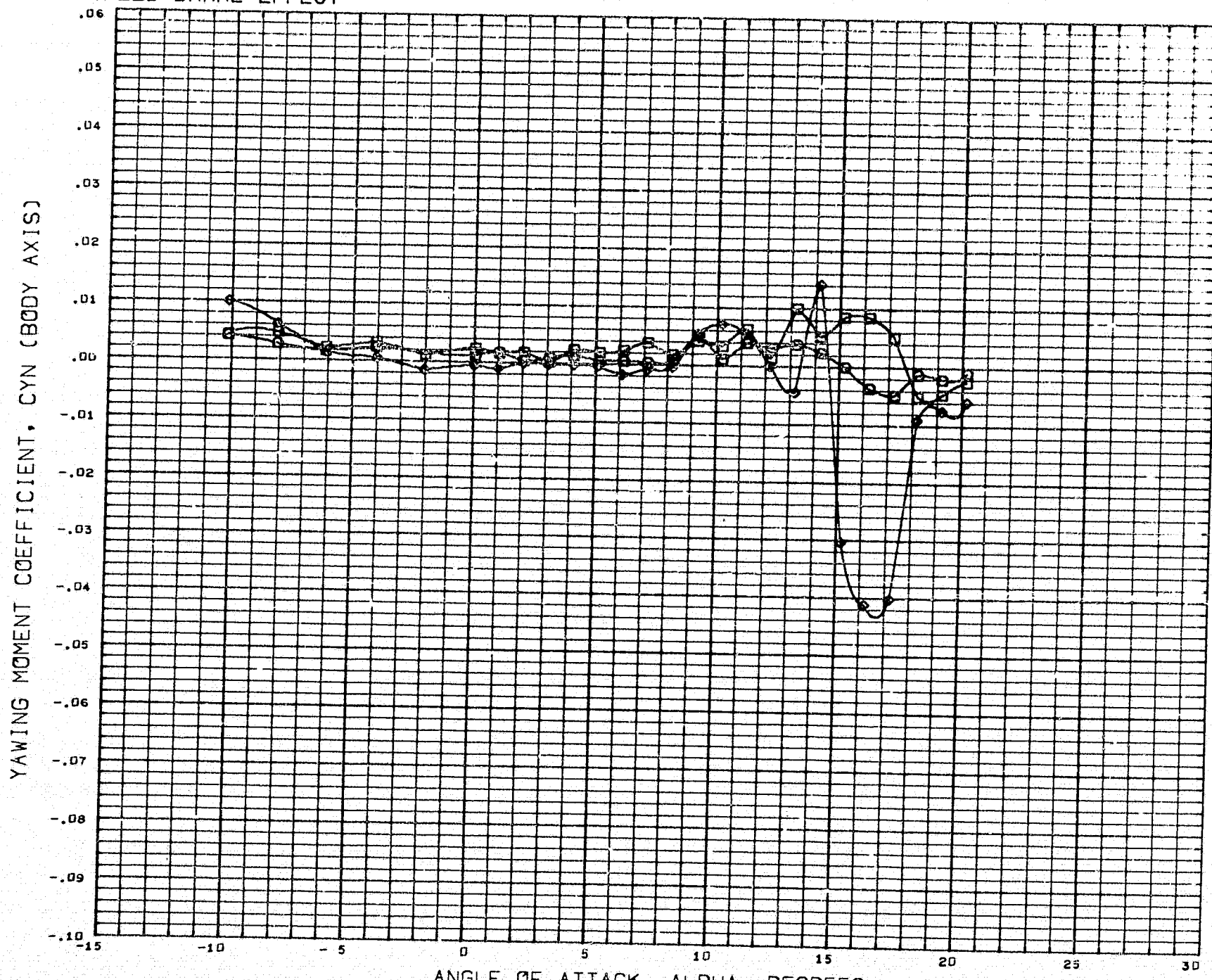
BETA	0.000	HTAIL	-5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	56.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVTR 0.000

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1SB2

ELEVTR 0.000

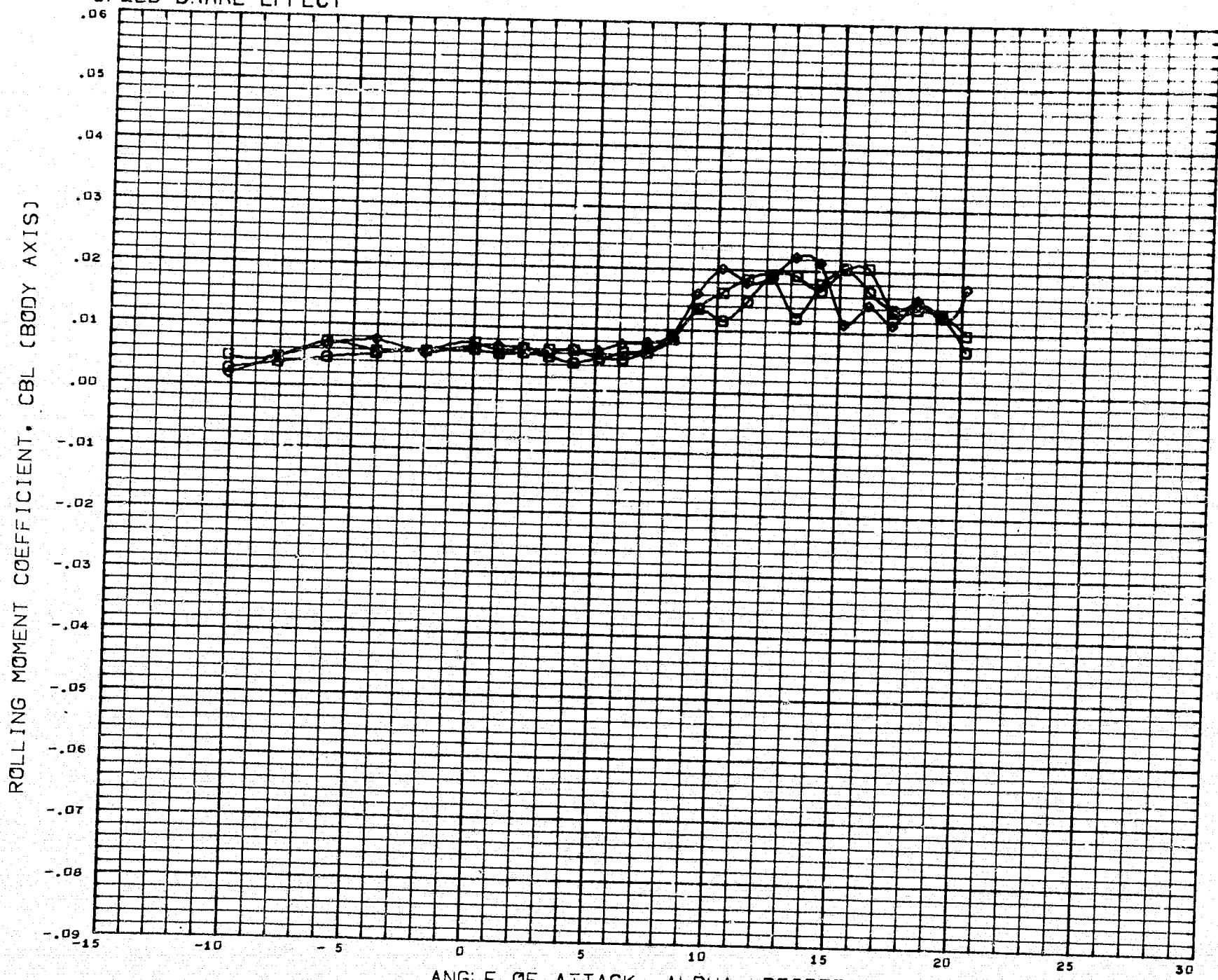
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER.CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1S92

ELEVTR 0.000

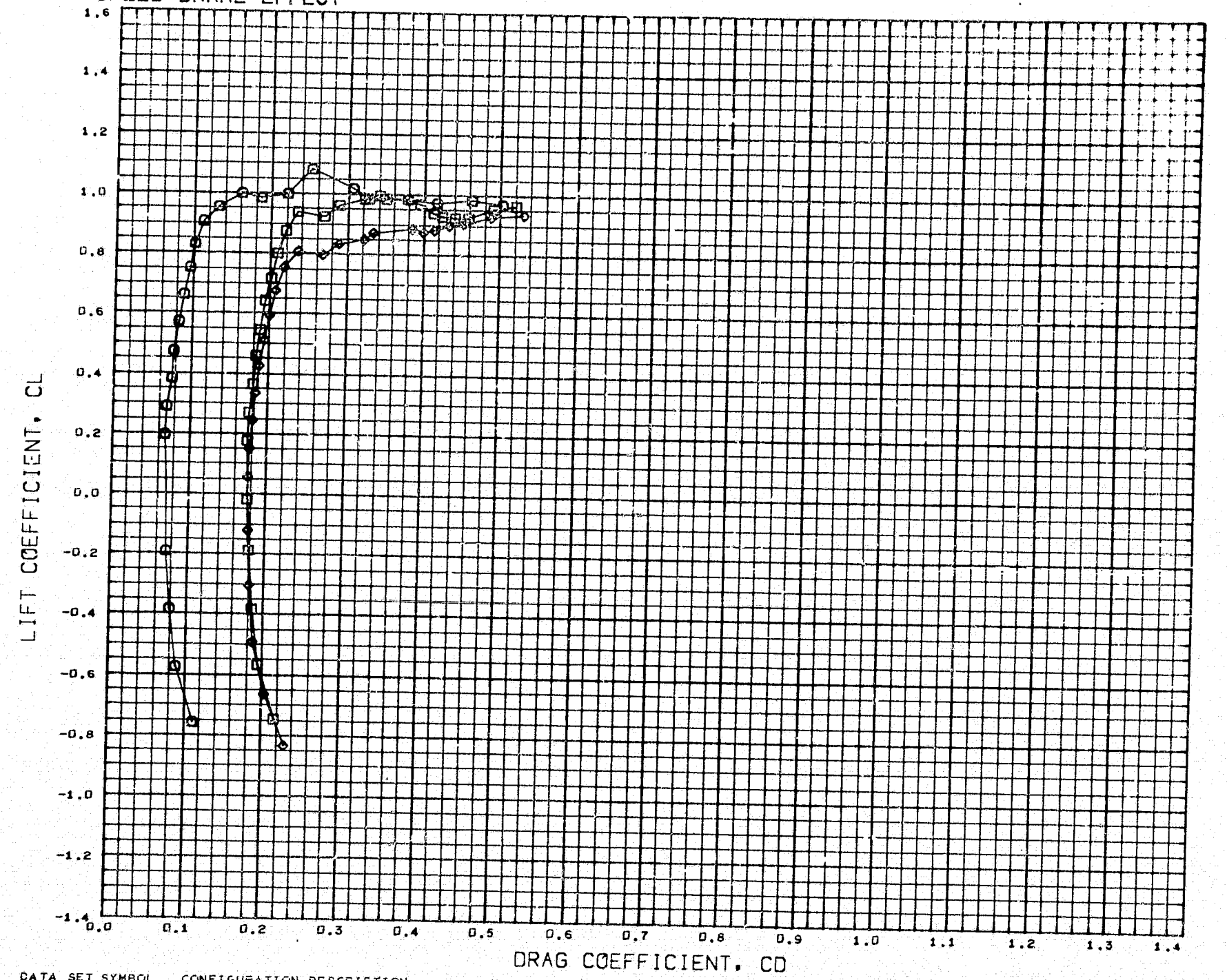
PARAMETRIC VALUES

BETA	0.000	HTAIL	-5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 PC 01 LSWT 237 B+W2V1H1
(BCDA90)	□	4.0 PC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 PC 01 LSWT 237 B4W2V1H1SB2

ELEVTR 0.000

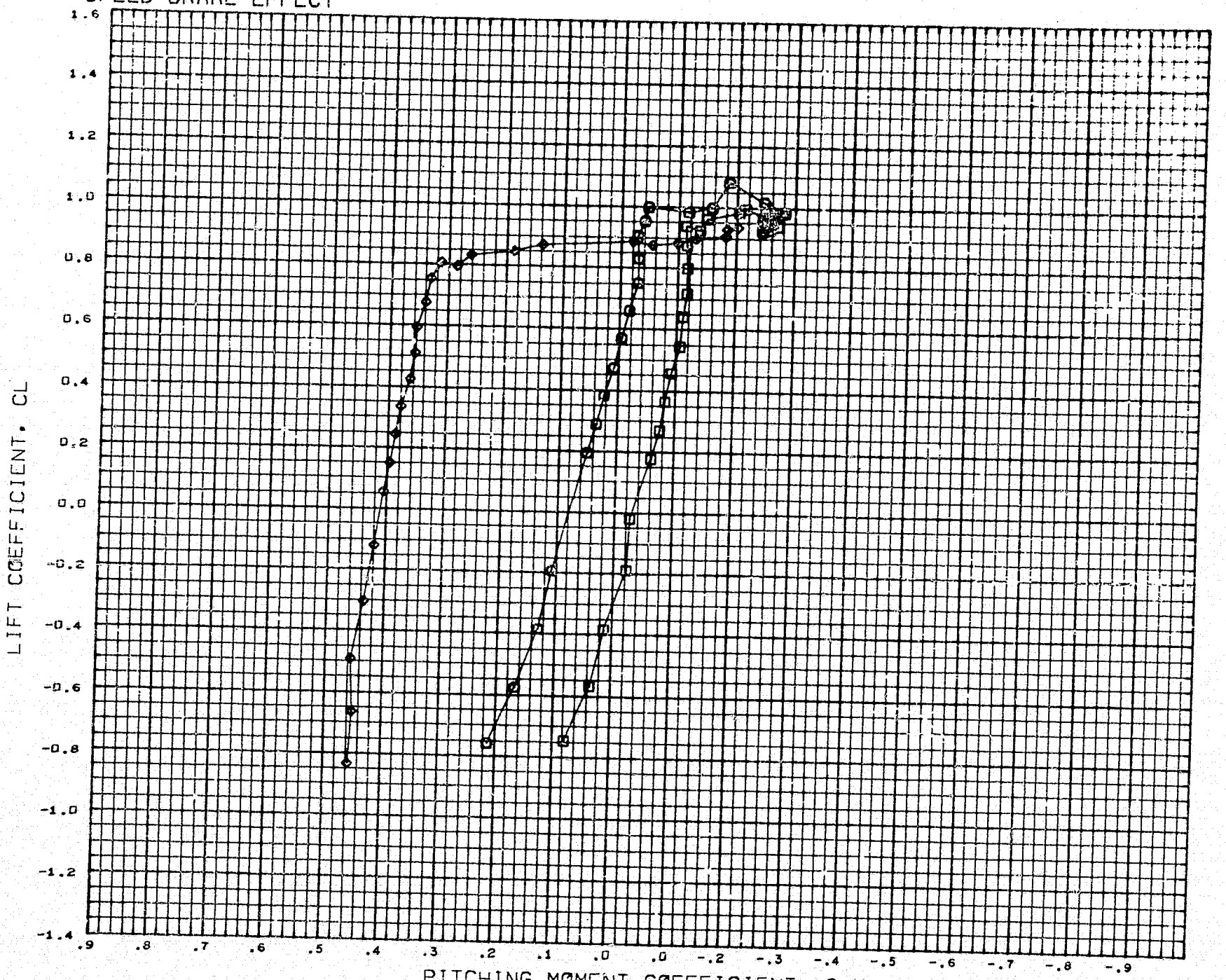
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7701	SQ. IN
REFL	5.5140	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

SPEED BRAKE EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1SB2

ELEVTR 0.000

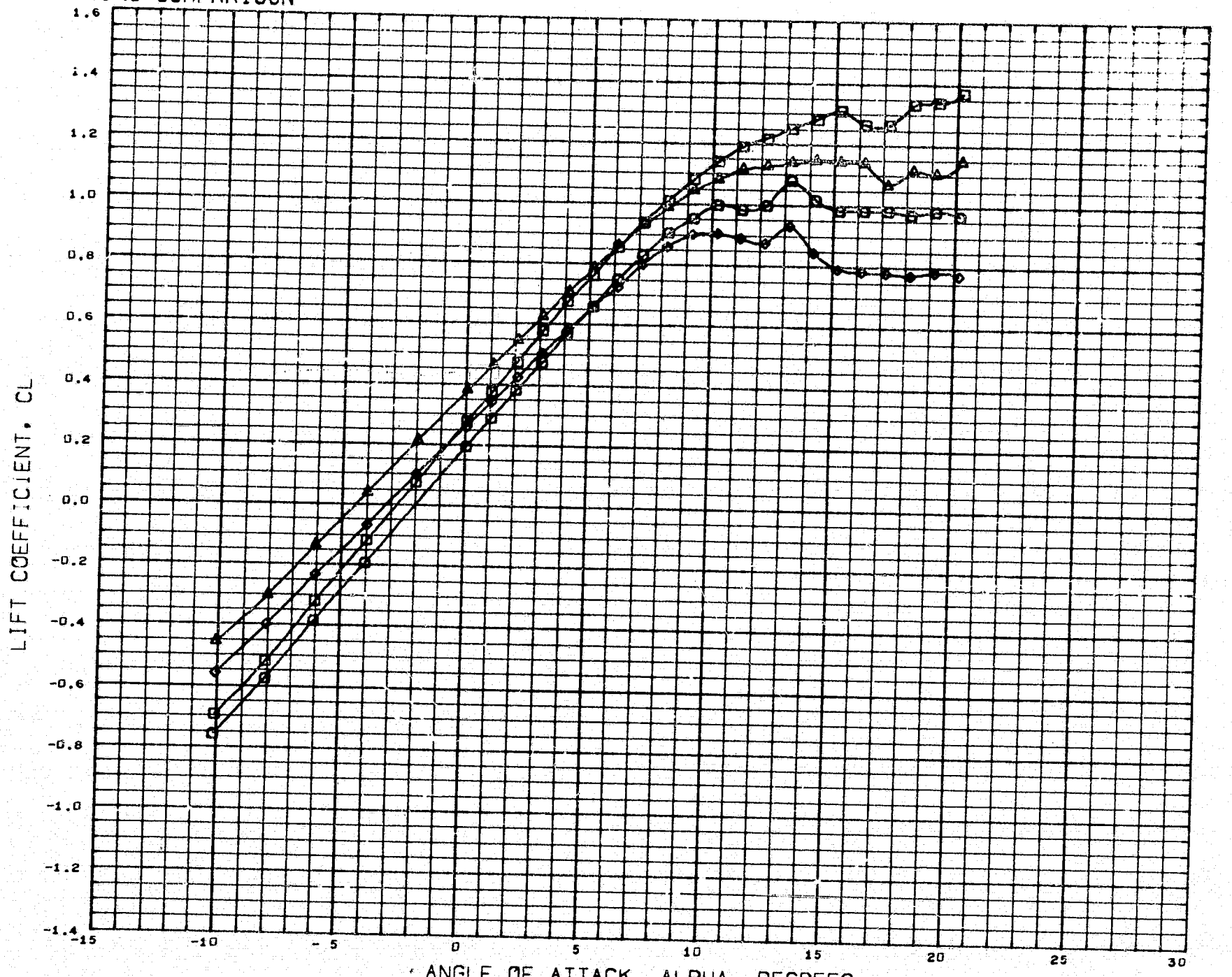
PARAMETRIC VALUES

BETA	0.000	HTAIL	- 5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	6.5100	IN.
REFB	55.7800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1
(BCD01D)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD01A)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

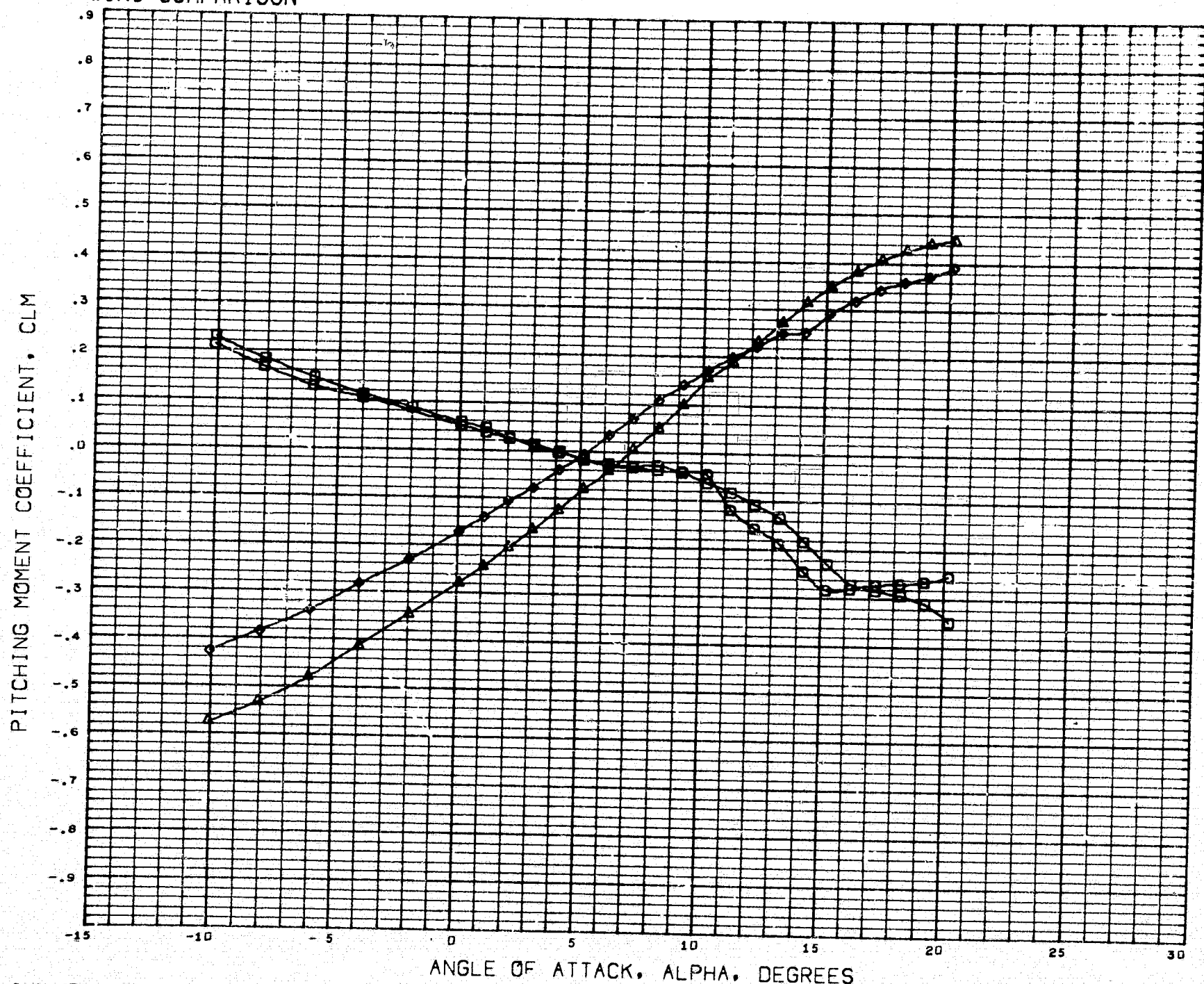
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCD04B)	□	4.0 PC 01 LSWT 237 B4W1V1H1
(BCD01C)	◇	4.0 PC 01 LSWT 237 B4W2
(BCD01A)	△	4.0 PC 01 LSWT 237 B4W1

ELEVTR 0.000

PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000	
SP-L	0.000	SP-R	0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5101	IN.
REFB	55.3800	IN.
XMRP	37.5400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(BCDA04)	○	4.0 FC 01 LSWT 237	B4W2V1H1
(BCDA4B)	□	4.0 FC 01 LSWT 237	B4W1V1H1
(BCDD1D)	◇	4.0 FC 01 LSWT 237	B4W2
(BCDD1A)	△	4.0 FC 01 LSWT 237	B4W1

ELEVTR 0.000

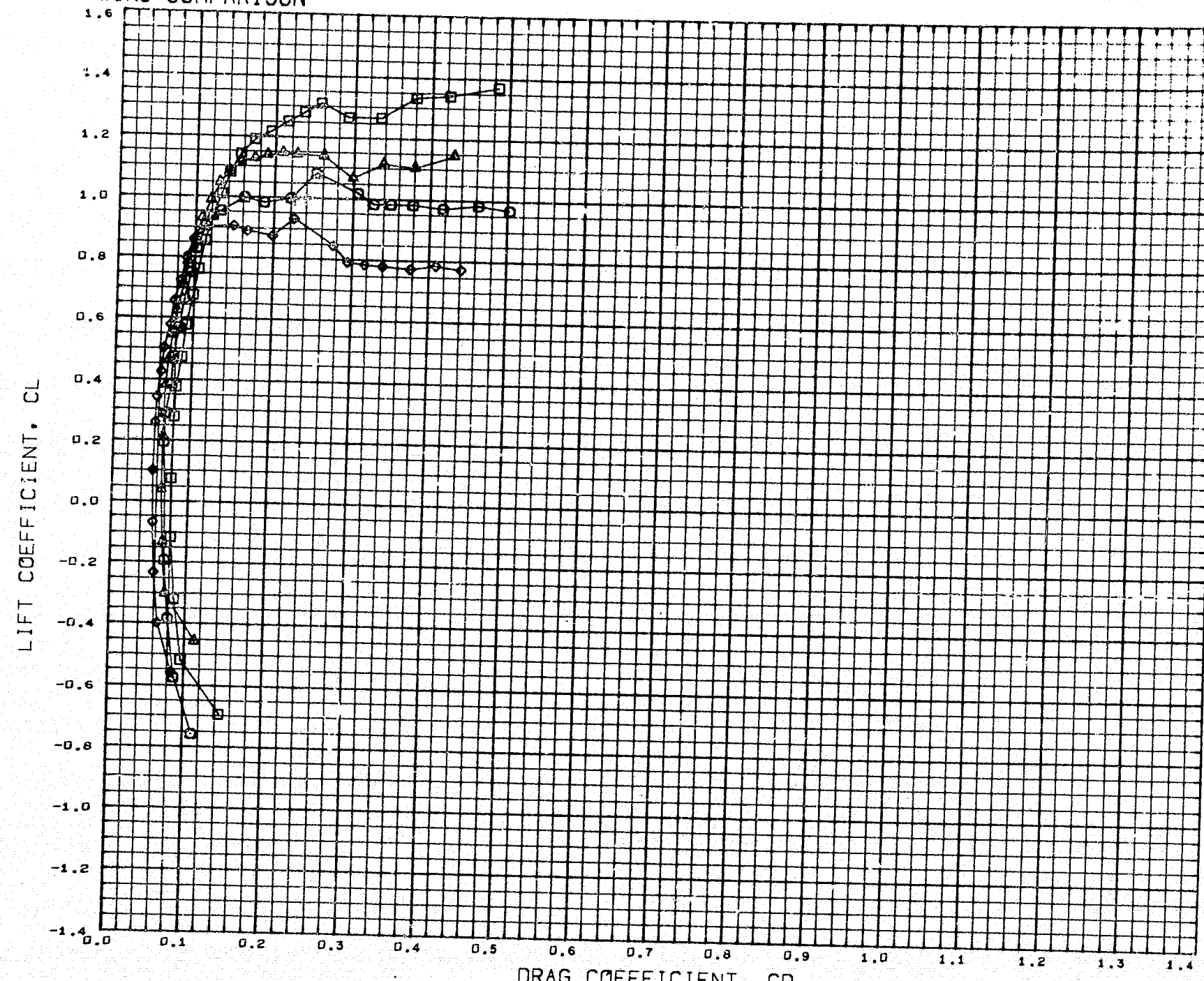
PARAMETRIC VALUES

BETA	0.000	HTAIL	-5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(BCD04)	○	4.0 PC 01 LSWT 237	B4W2V1H1
(BCD04B)	□	4.0 PC 01 LSWT 237	B4W1V1H1
(BCD05)	◇	4.0 PC 01 LSWT 237	B4W2
(BCD01A)	△	4.0 PC 01 LSWT 237	B4W1

ELEVTR 0.000

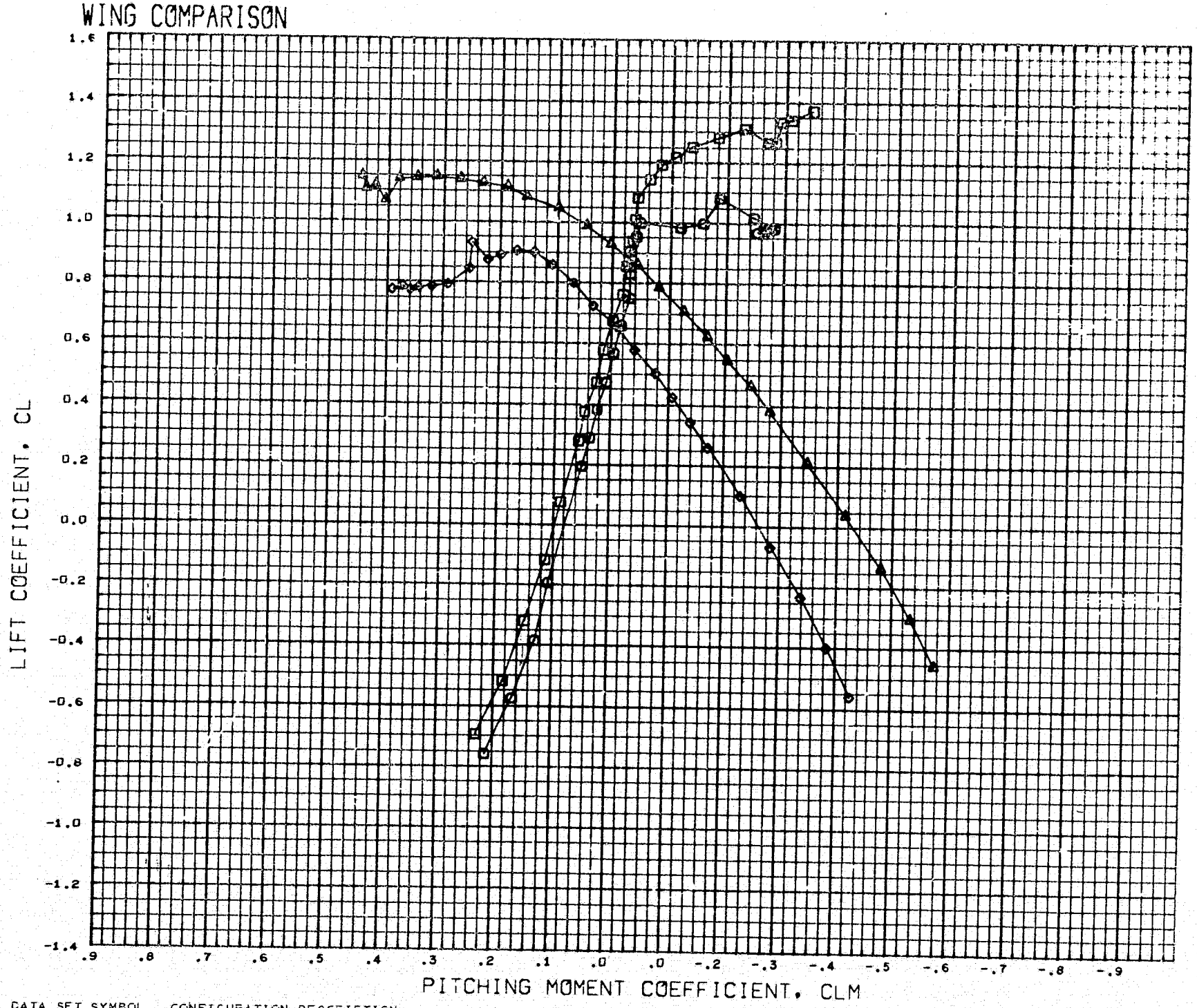
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3850	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1
(BCD01D)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD01A)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

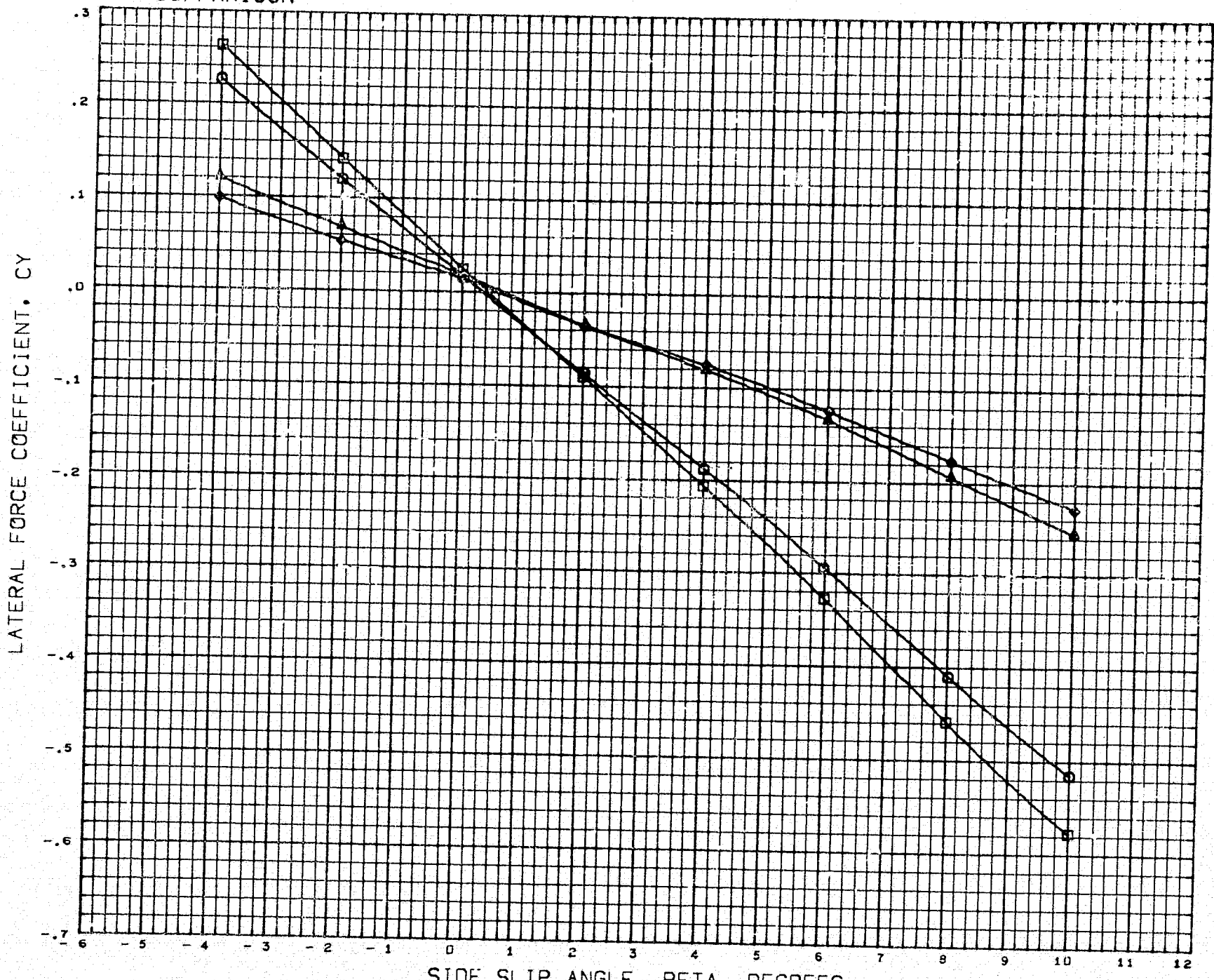
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5300	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDAG2)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCD04D)	□	4.0 PC 01 LSWT 237 B4W1V1H1
(BCD012)	◇	4.0 PC 01 LSWT 237 B4W2
(BCD01C)	△	4.0 PC 01 LSWT 237 B4W1

ELEVTR 0.000

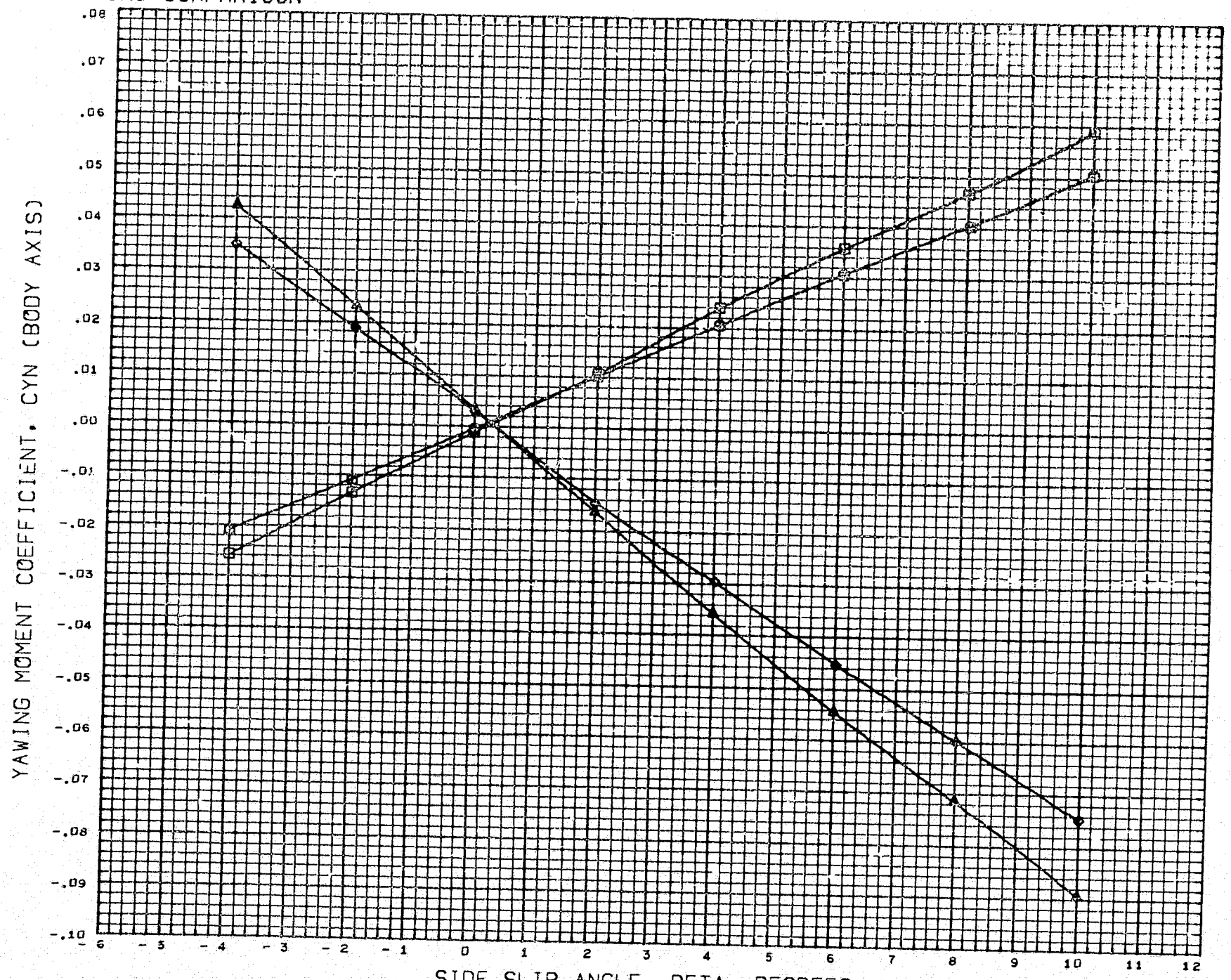
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD04D)	□	4.0 FC 01 LSWT 237 B4W1V1H1
(BCD012)	◇	4.0 FC 01 LSWT 237 B4W2
(BCD01C)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

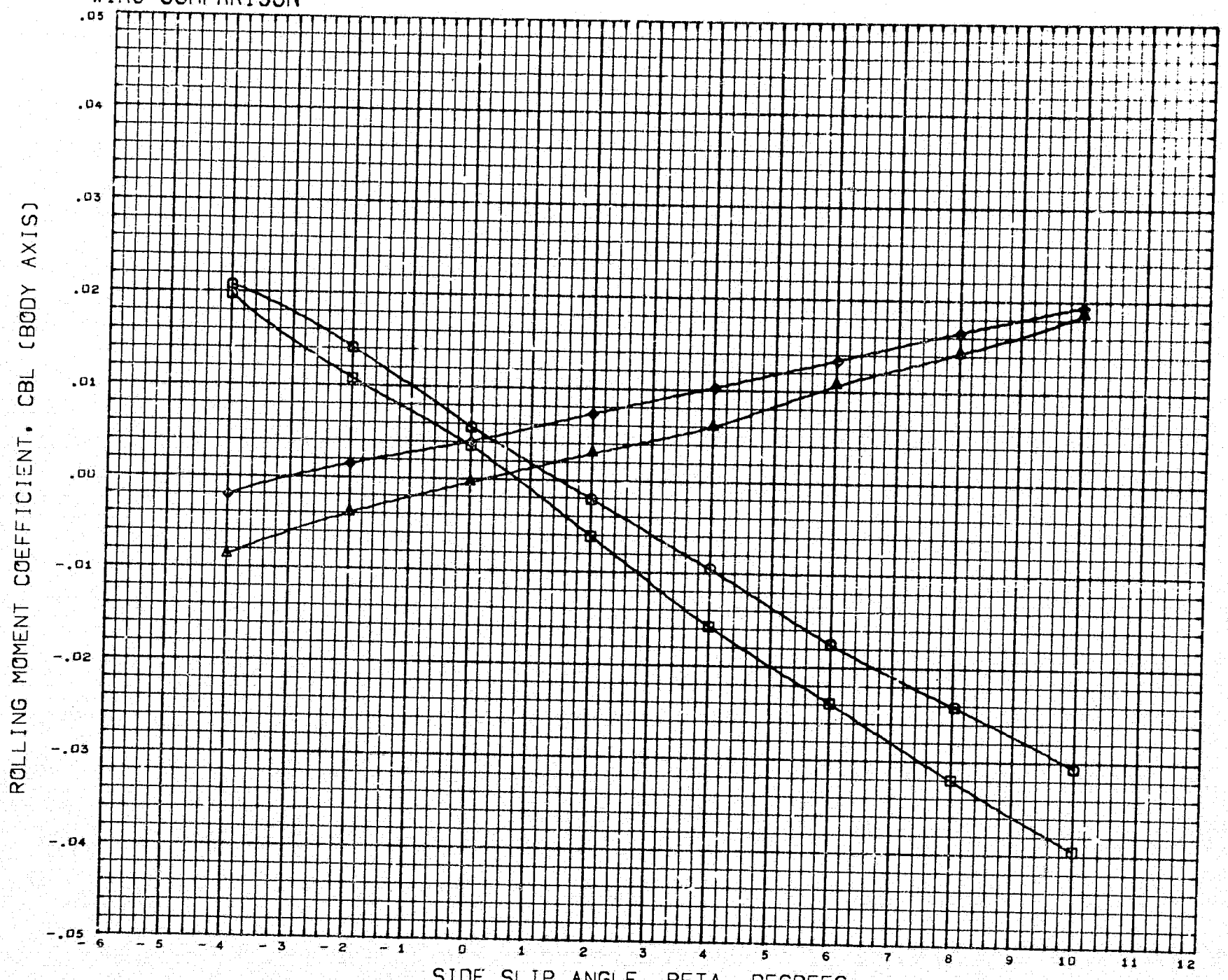
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCDA02)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCD04D)	□	4.0 FC 01 LSWT 237 B4W1V1H1
(BCD012)	◇	4.0 FC 01 LSWT 237 B4W2
(2CD01C)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

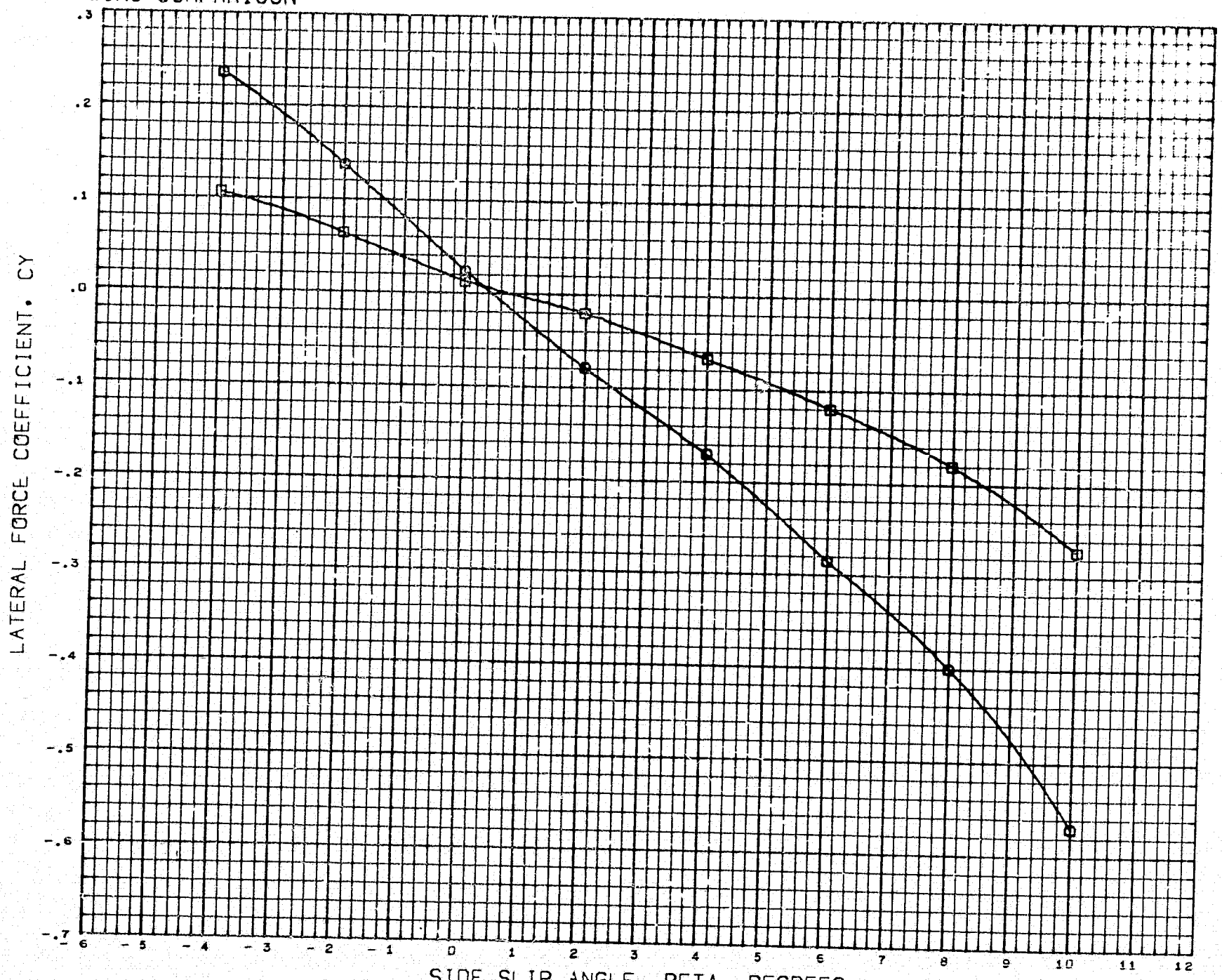
PARAMETRIC VALUES

ALPHA 6.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5150	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BCD04E) ○ 4.0 PC 01 LSWT 237 B4W1V1H1

(BCD01D) □ 4.0 PC C1 LSWT 237 B4W1

PARAMETRIC VALUES

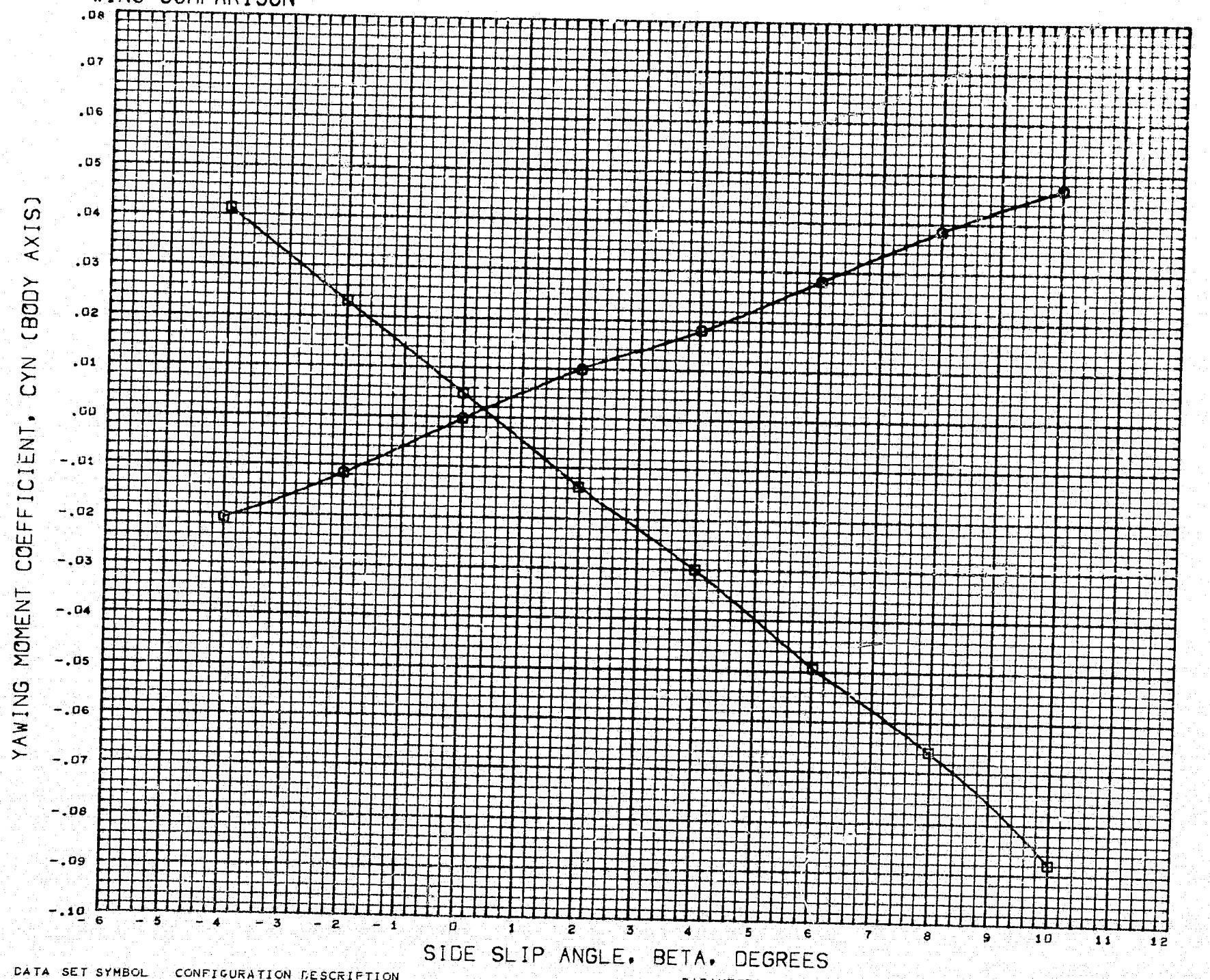
ALPHA 15.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04E)	○	4.0 FC 01 LSWT 237 B4W1V1H1
(BCD01D)	□	4.0 FC 01 LSWT 237 B4W1

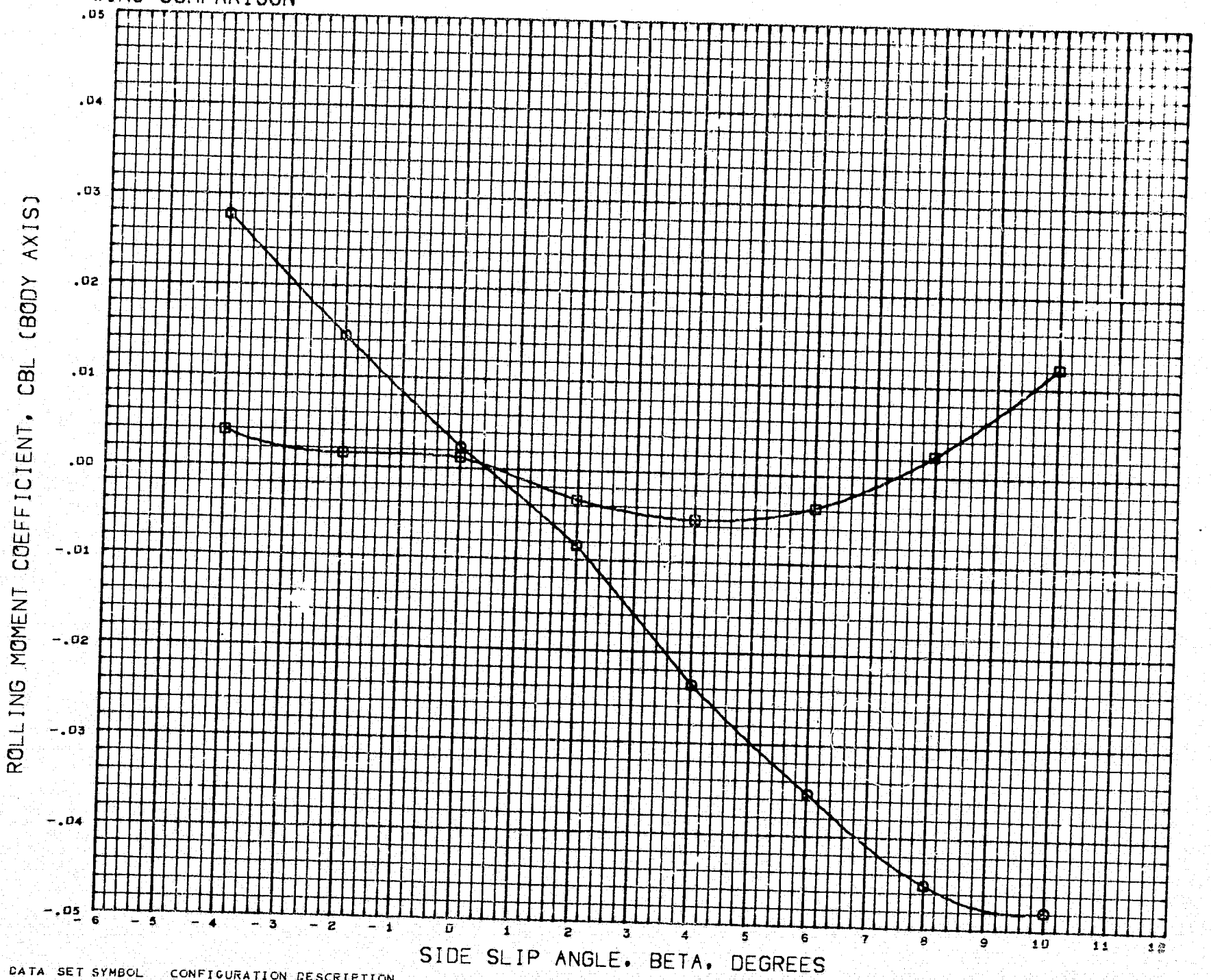
PARAMETRIC VALUES

ALPHA 15.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BCD04E) ○ 4.0 FC 01 LSWT 237 B4W1V1H1

(BCD01D) □ 4.0 FC 01 LSWT 237 B4W1

PARAMETRIC VALUES

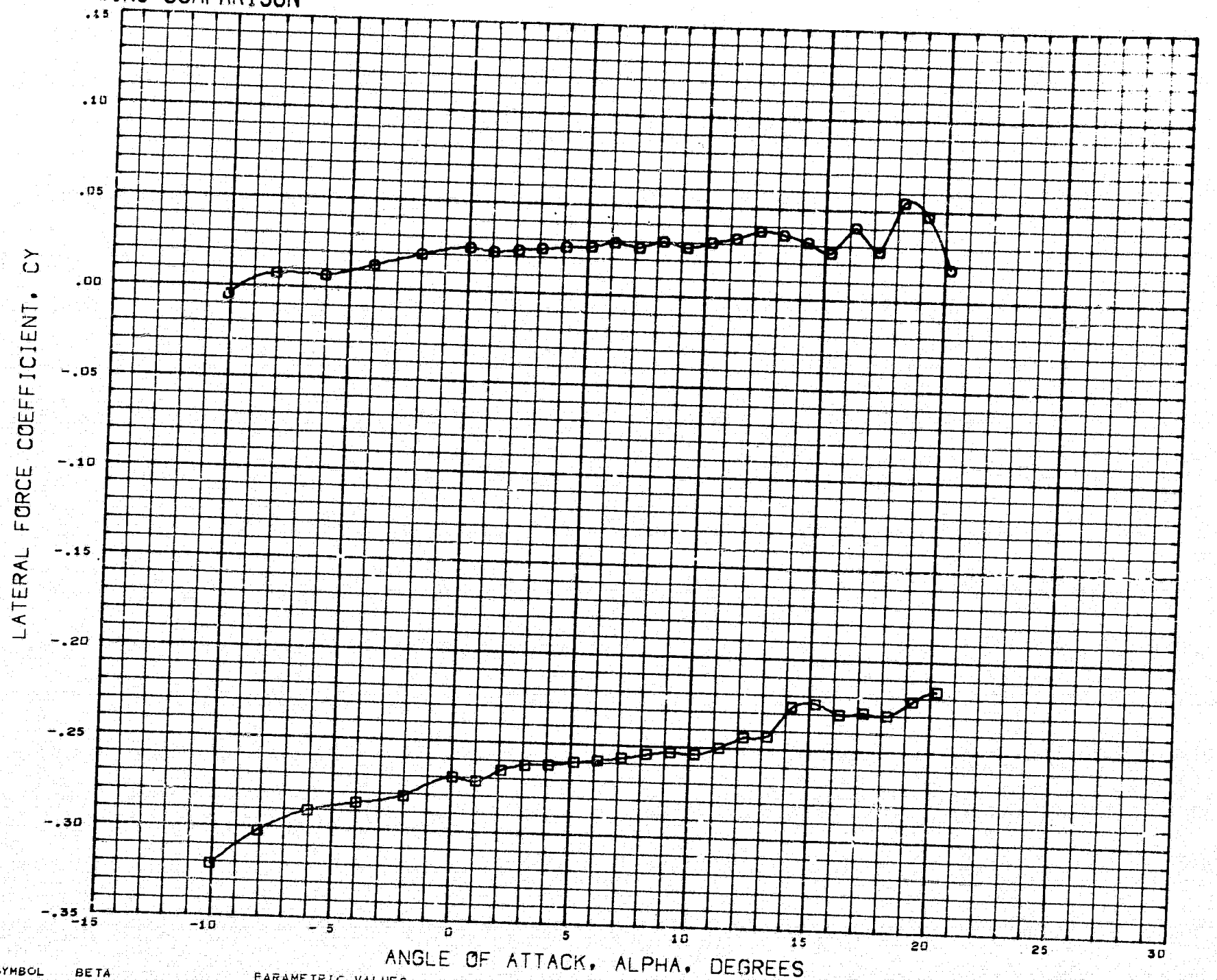
ALPHA 15.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0310	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

ELEVTR 0.000 HTAIL - 5.000

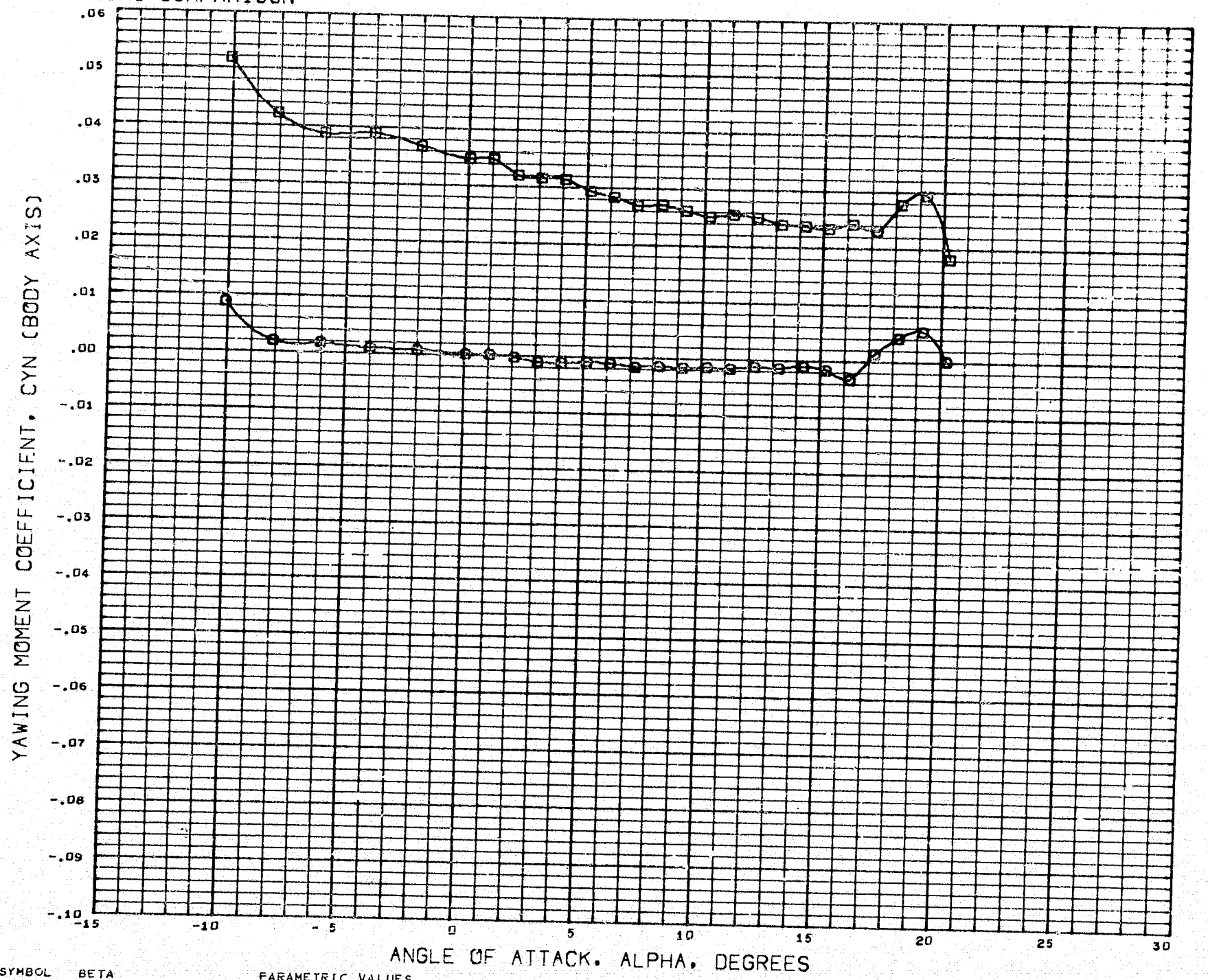
REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W1V1H1

WING COMPARISON



SYMBOL	BETA
O	0.000
□	5.000

PARAMETRIC VALUES

ELEVTR 0.000 HTAIL - 5.000

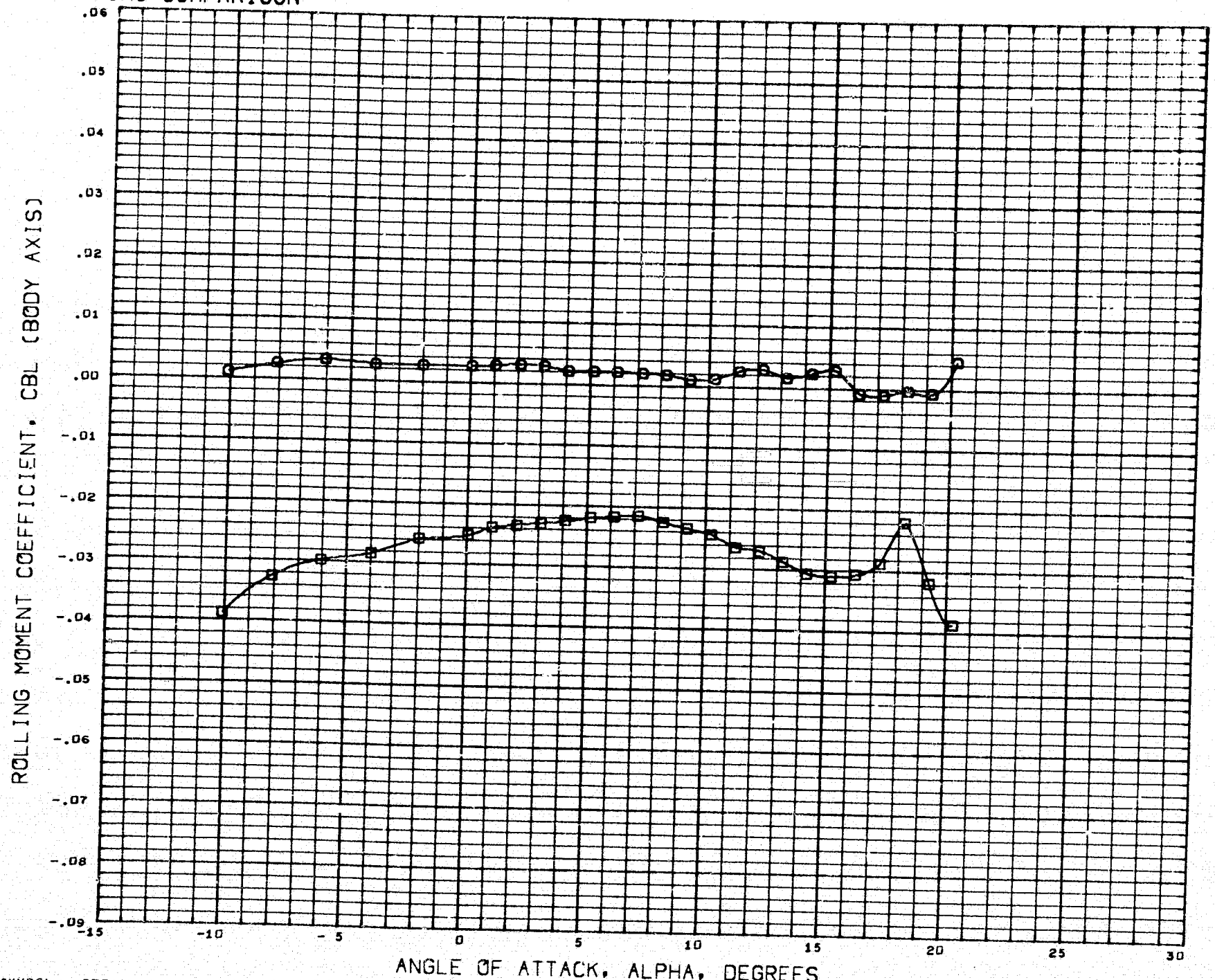
REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V≠E

4.0 PC 01 LSWT 237 B4W1V1H1

WING COMPARISON



SYMBOL	BETA	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000				

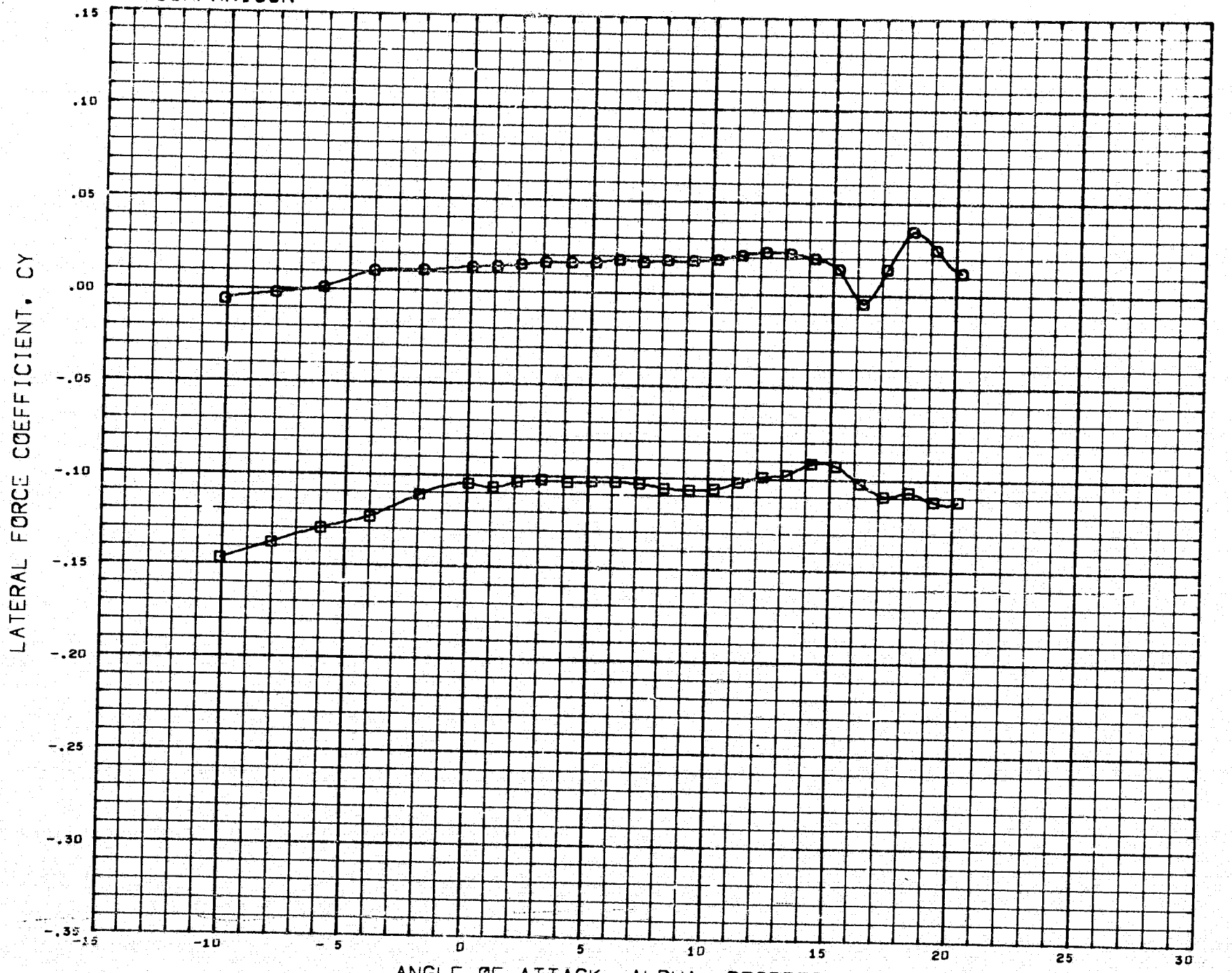
REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W1V1H1

WING COMPARISON



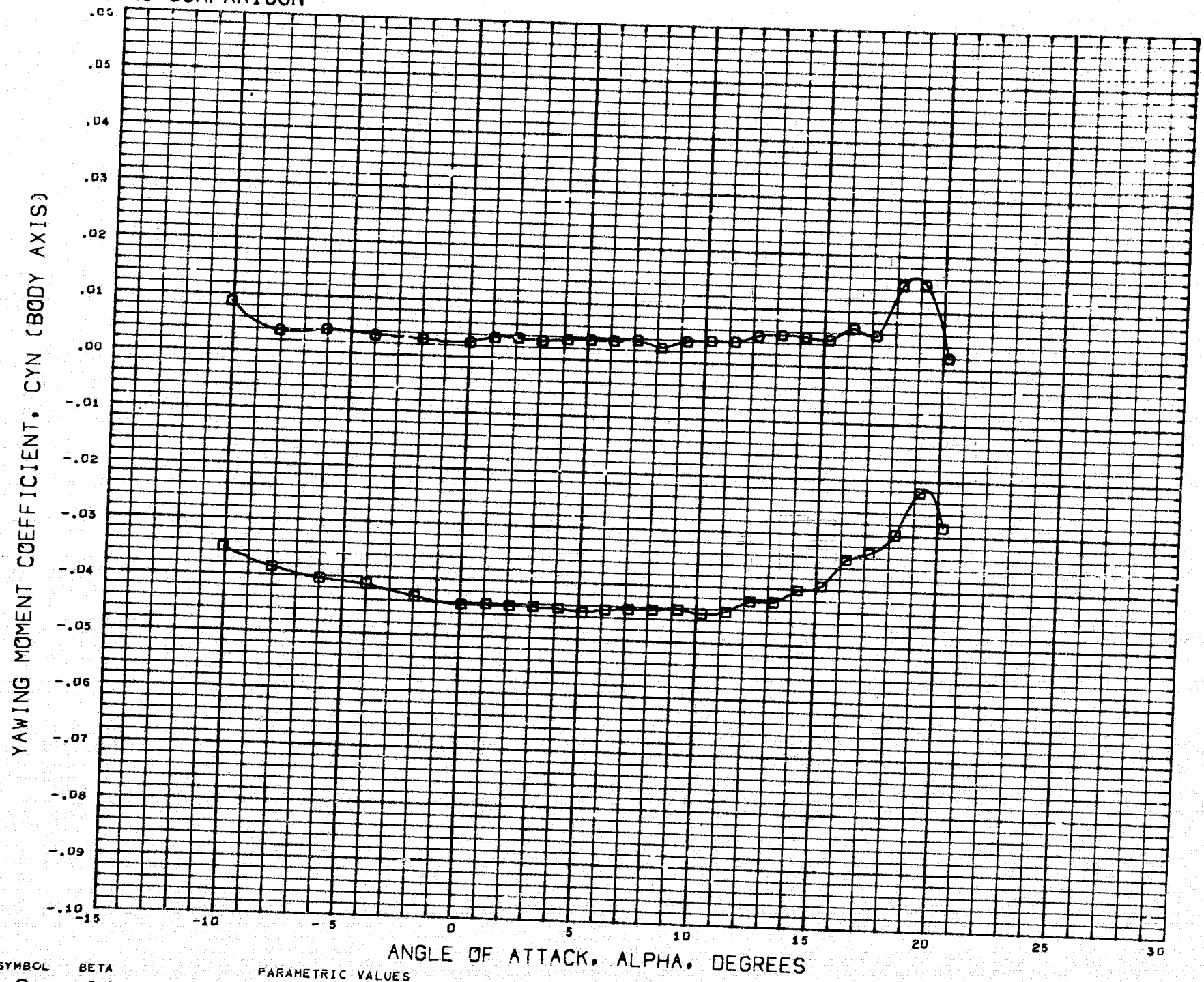
SYMBOL	BETA		PARAMETRIC VALUES
O	0.000	ELEVTR	0.000
□	5.000		

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



SYMBOL	BETA	PARAMETRIC VALUES	
O	0.000	ELEVTR	0.000
□	5.000		

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W1

WING COMPARISON

SYMBOL	BETA	PARAMETRIC VALUES	
O	0.000	ELEVTR	0.000
□	5.000		

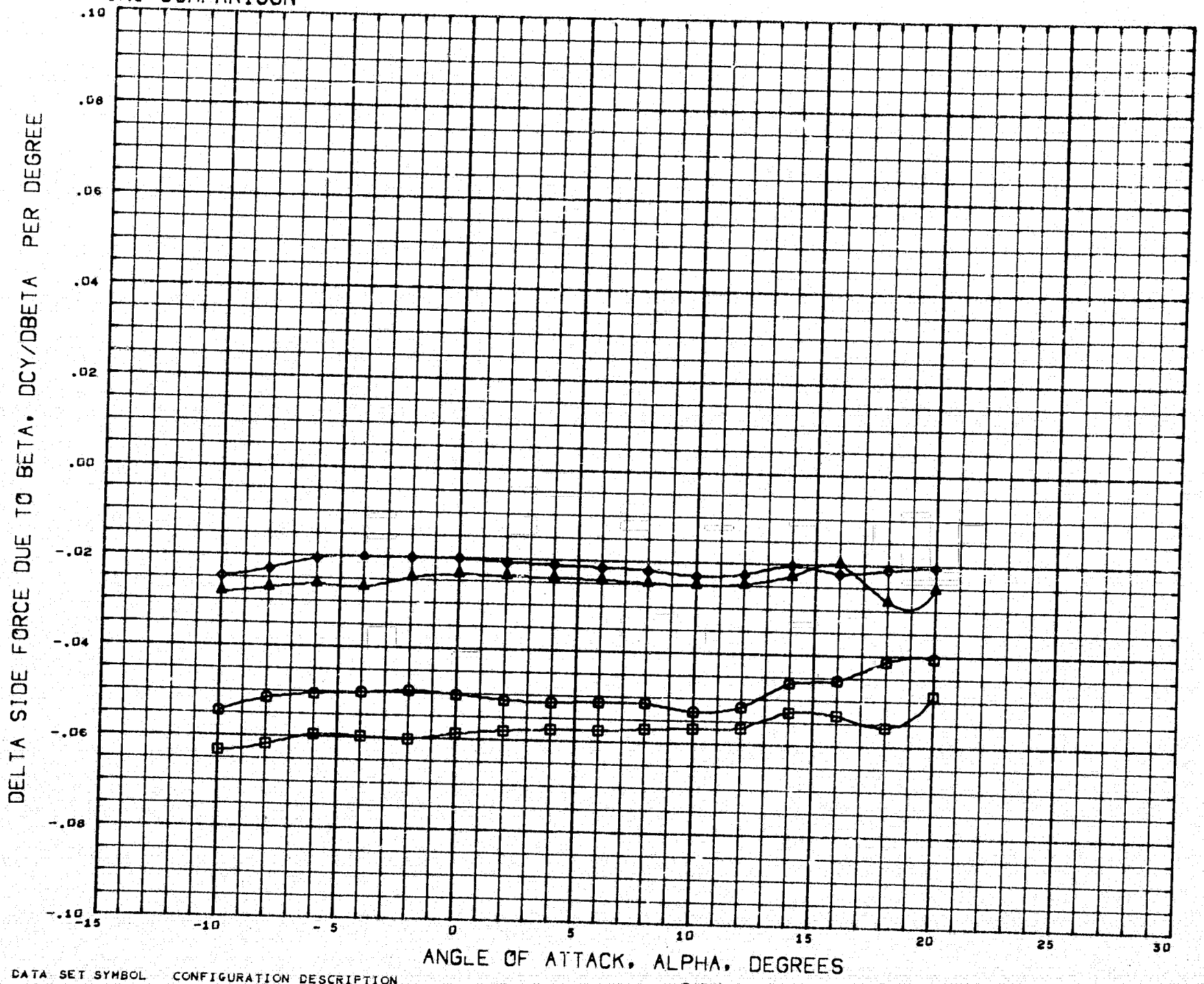
REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W1

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION			
(FCDA04)	O	4.0 PC 01	LSWT 237	B4W2V1H1	
(FCDD4B)	□	4.0 PC 01	LSWT 237	B4W1V1H1	
(FCDD1D)	◇	4.0 PC 01	LSWT 237	B4W2	
(FCDD1A)	△	4.0 PC 01	LSWT 237	B4W1	

ELEVTR 0.000

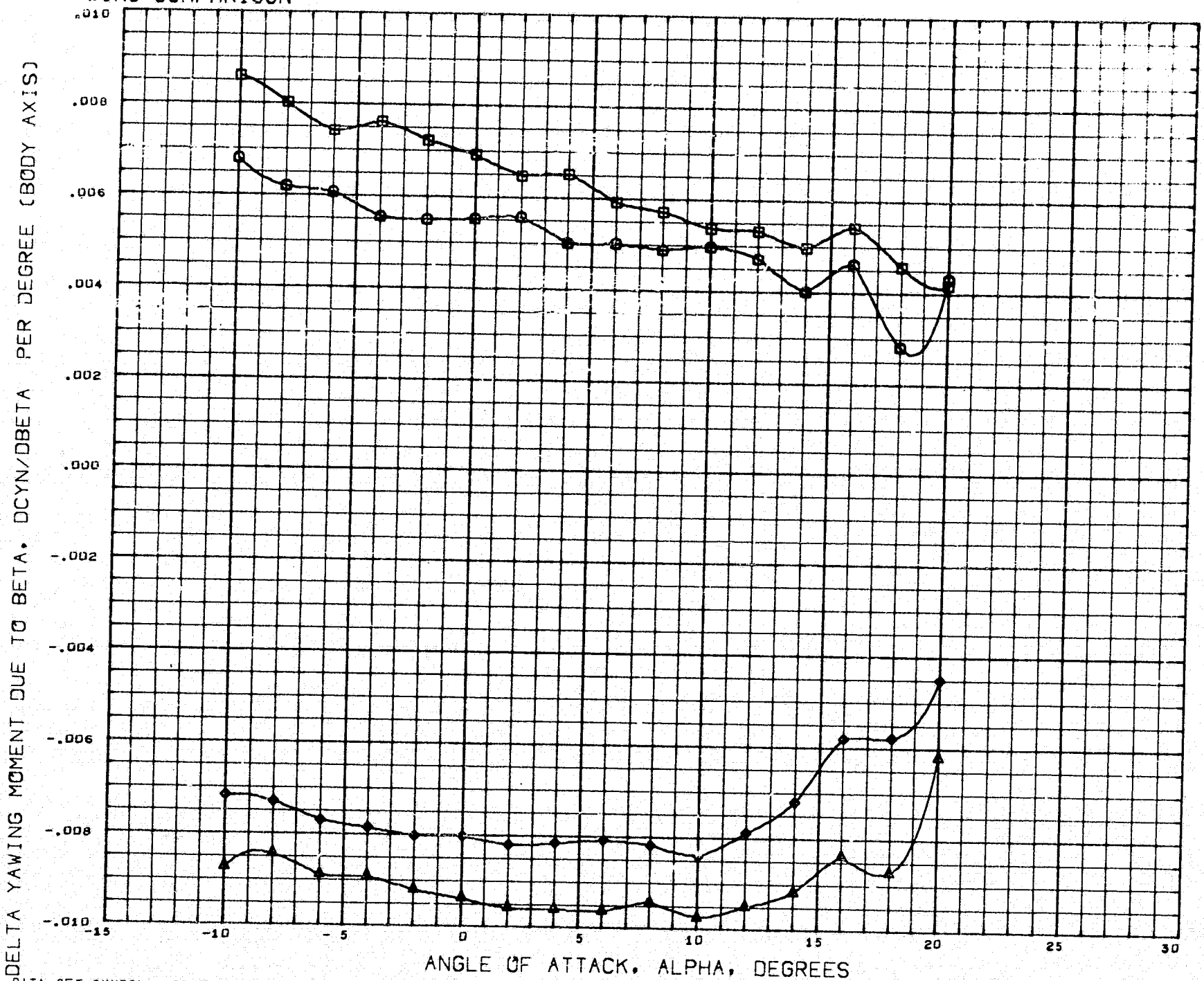
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5140	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1
(FCD01D)	◇	4.0 FC 01 LSWT 237 B4W2
(FCD01A)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

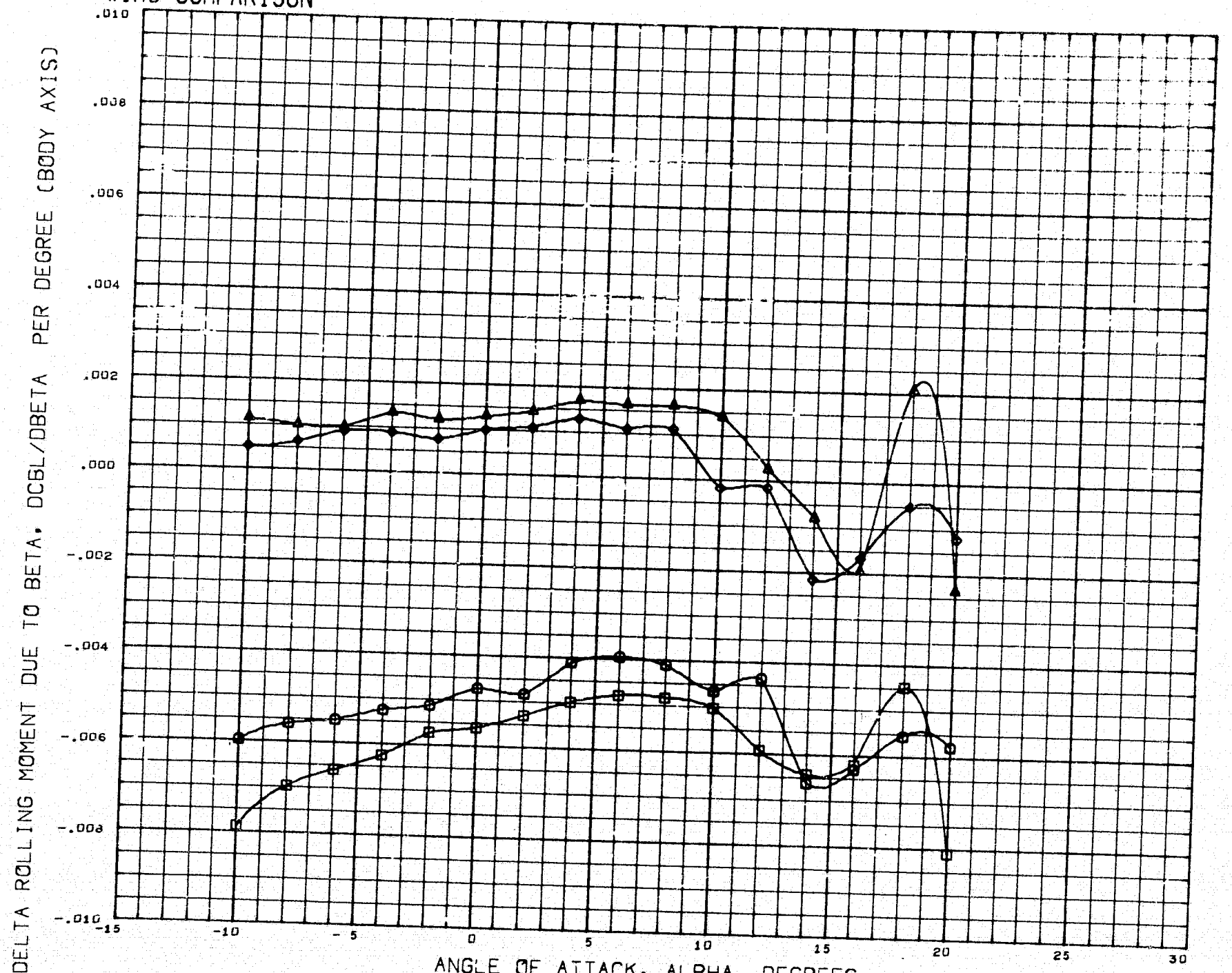
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7734	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING COMPARISON



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(FCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(FCDD4B)	□	4.0 FC C1 LSWT 237 B4W1V1H1
(FCDD1D)	◇	4.0 FC 01 LSWT 237 B4W2
(FCDD1A)	△	4.0 FC 01 LSWT 237 B4W1

ELEVTR 0.000

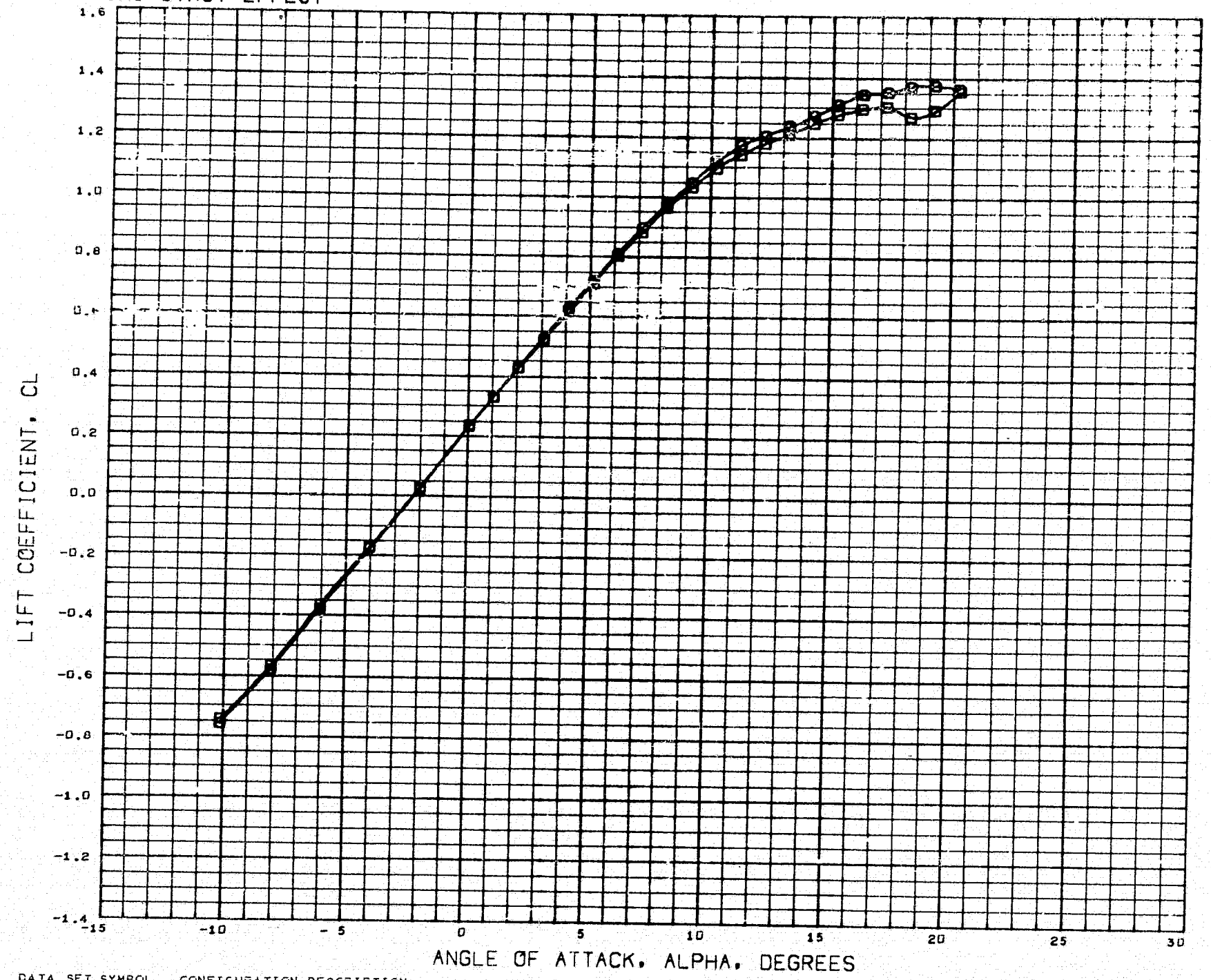
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5110	IN.
REFB	55.3800	IN.
XMRP	37.3400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCD08D)	O	4.0 PC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 PC 01 LSWT 237 B3W1V1H1

ELEVTR 0.000

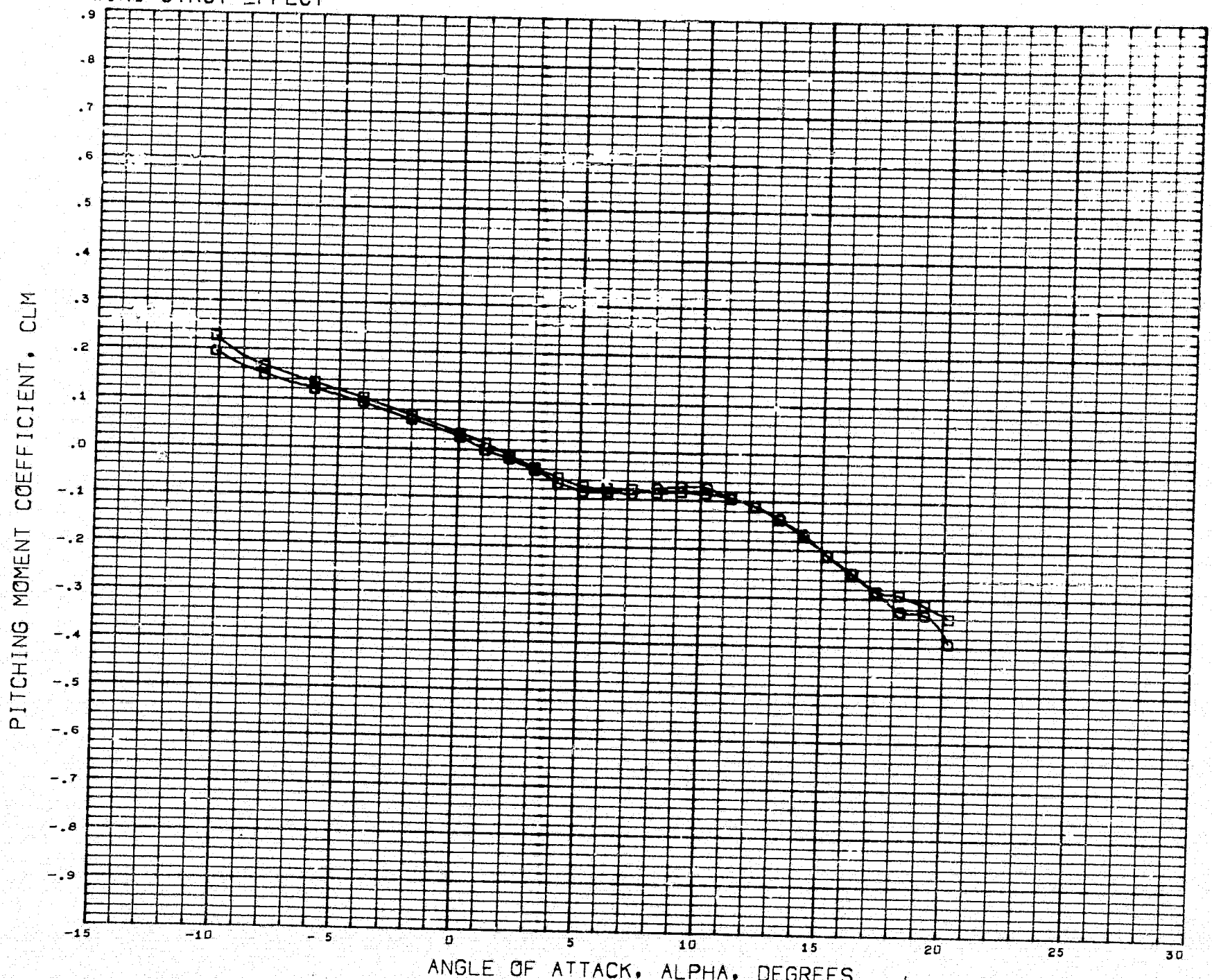
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0330	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD08D)	○	4.0 PC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 PC 01 LSWT 237 B3W1V1H1

PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0.00	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD08D)	O	4.0 FC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 FC 01 LSWT 237 B3W1V1H1

PARAMETRIC VALUES

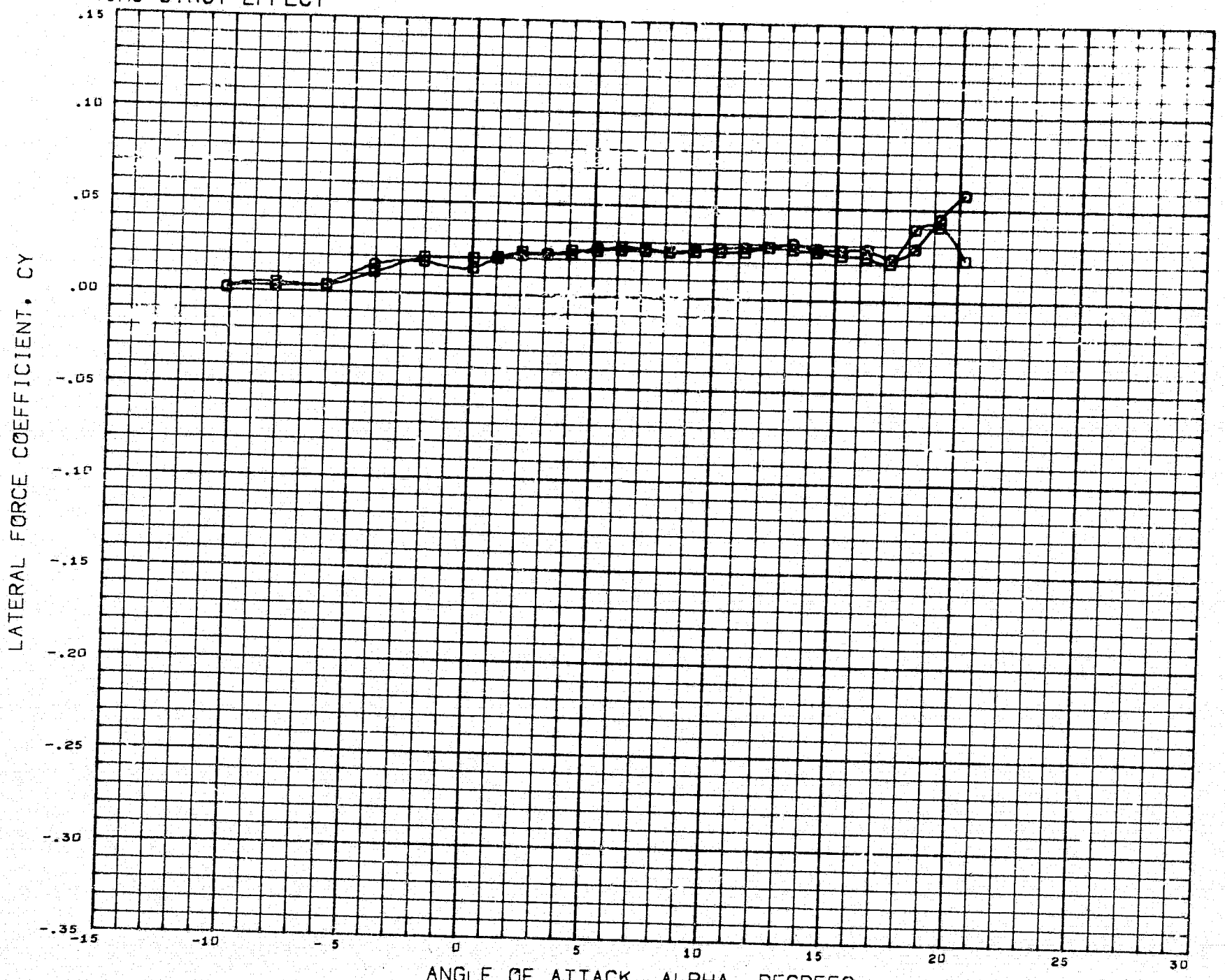
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD08D)	O	4.0 PC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 PC 01 LSWT 237 B3W3V1H1

ELEVTR 0.000

PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	3.0340	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCD08D)	○	4.0 PC 01 LSWT 237 J3W1V1H1J1
(BCD04A)	□	4.0 PC 01 LSWT 237 B3W1V1H1

PARAMETRIC VALUES

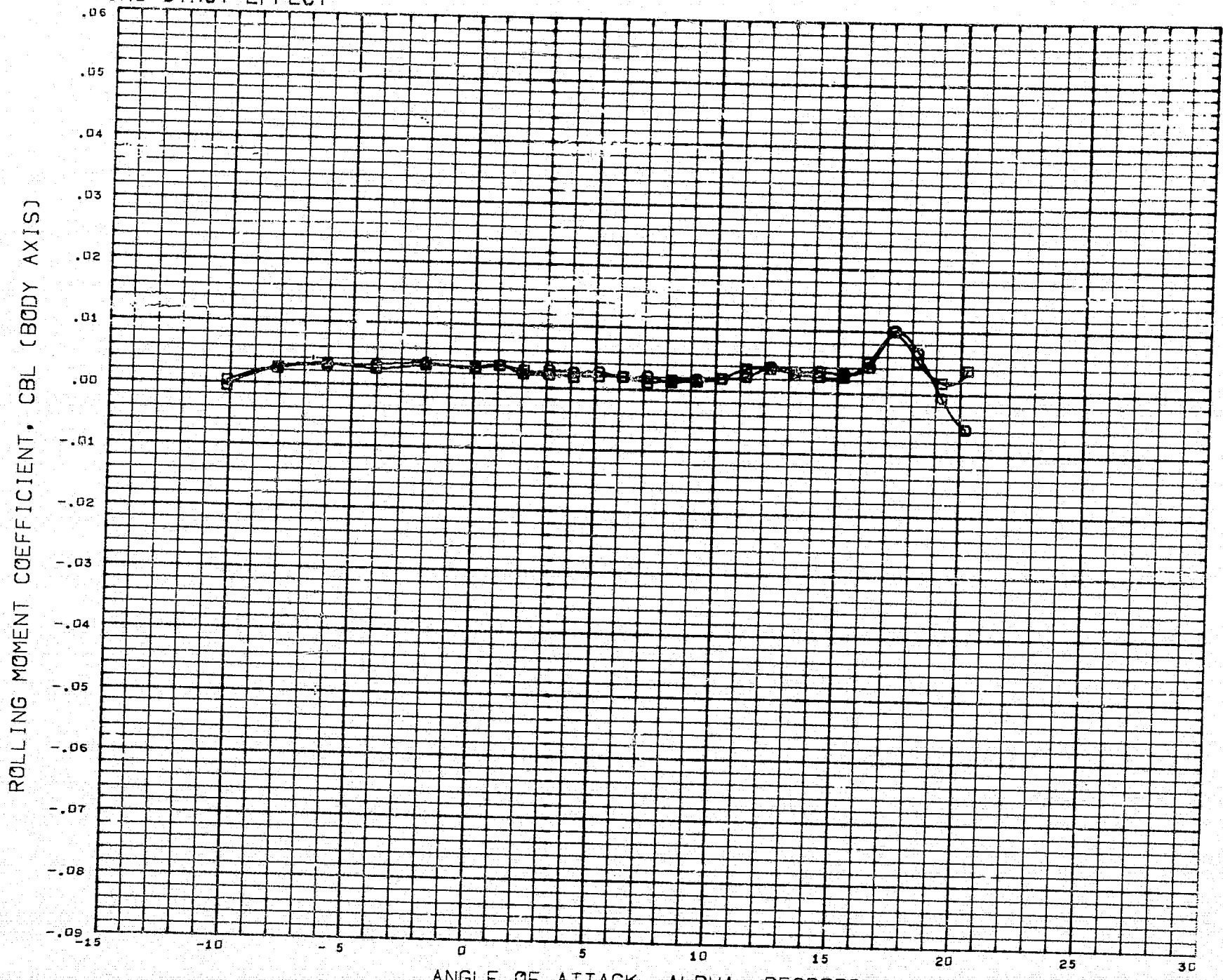
BETA 0.000 HTAIL - 5.000

ELE.TR 0.000

REFERENCE INFORMATION

REFS	389.4000	SQ. IN
REFL	8.0000	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD080)	O	4.0 PC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 PC 01 LSWT 237 B3W1V1H1

PARAMETRIC VALUES

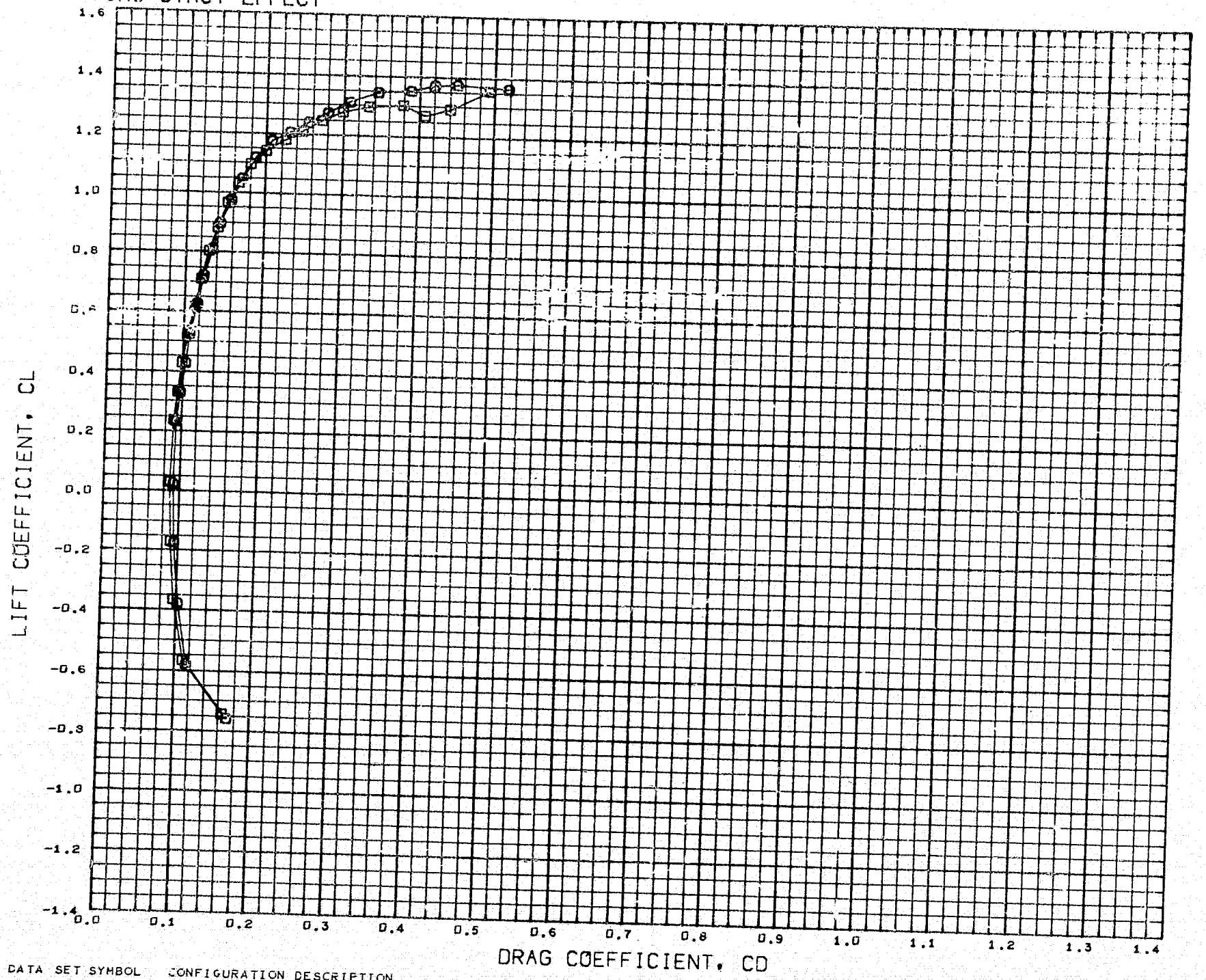
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4304	SQ. IN
REFL	8.0300	IN.
REFB	51.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD08D)	○	4.0 FC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 FC 01 LSWT 237 B3W1V1H1

ELEVTR 0.000

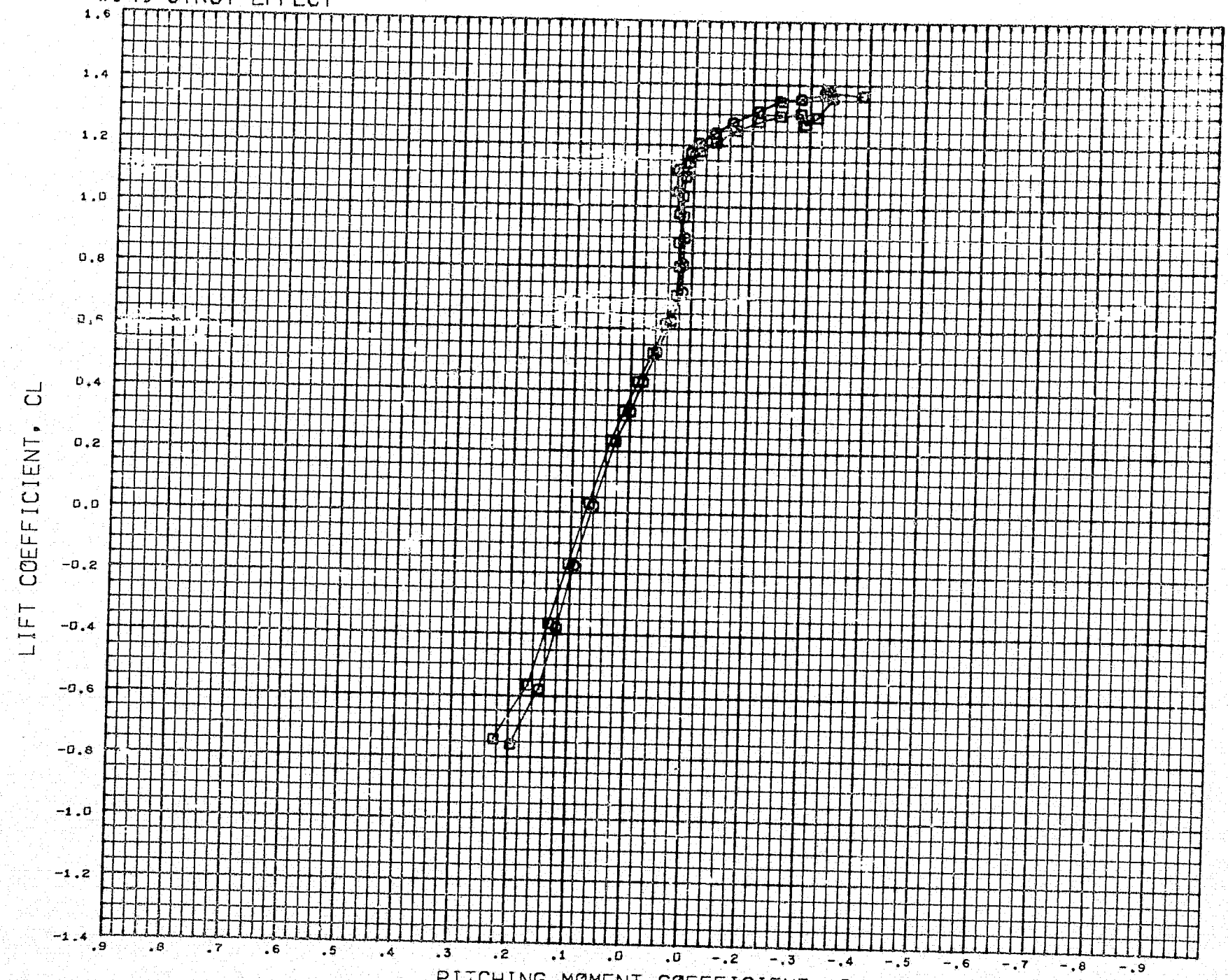
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING STRUT EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD080)	○	4.0 FC 01 LSWT 237 B3W1V1H1J1
(BCD04A)	□	4.0 FC 01 LSWT 237 B3W1V1H1

ELEVTR 0.000

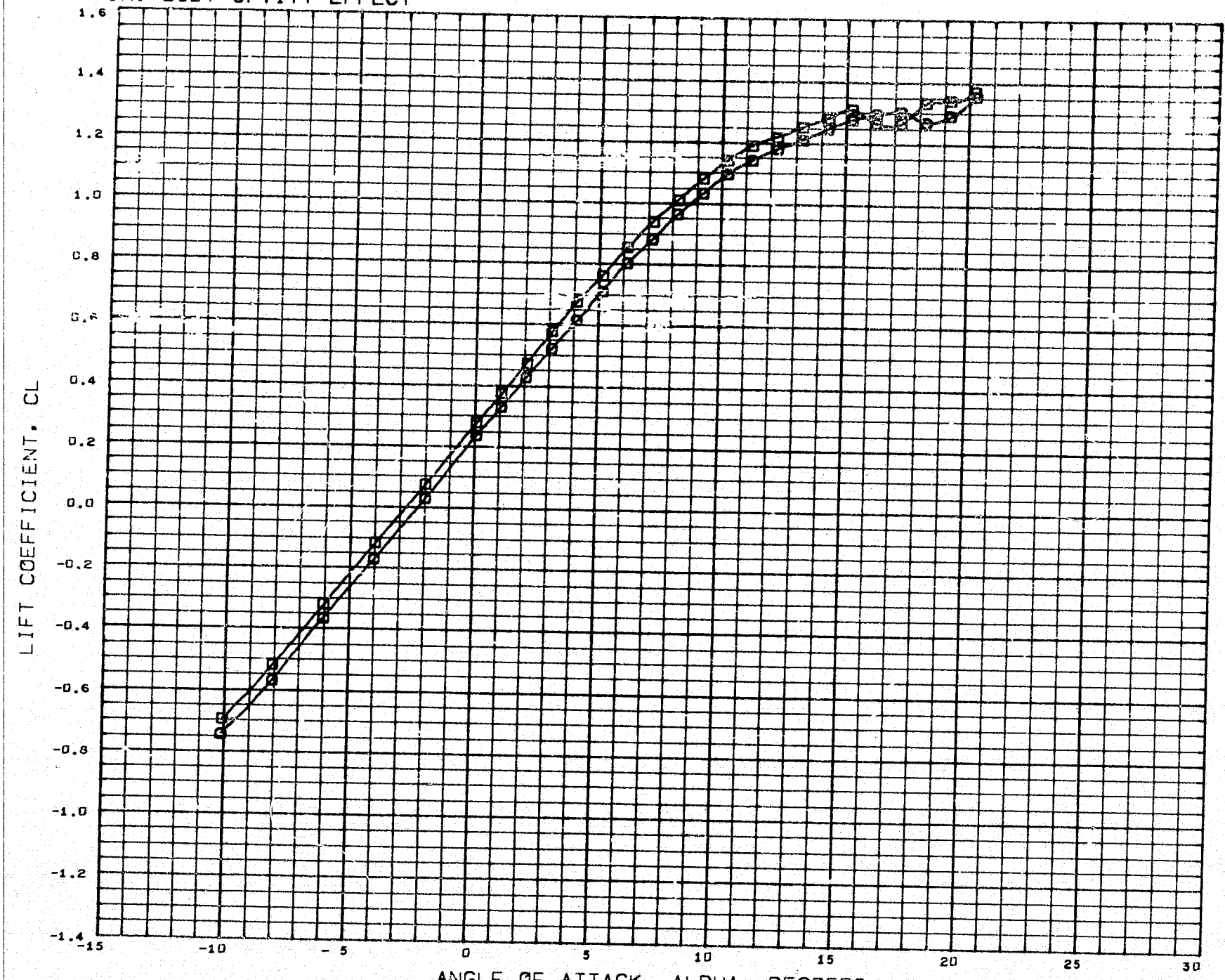
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0000	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	O	4.0 FC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1

ELEVTR 0.000

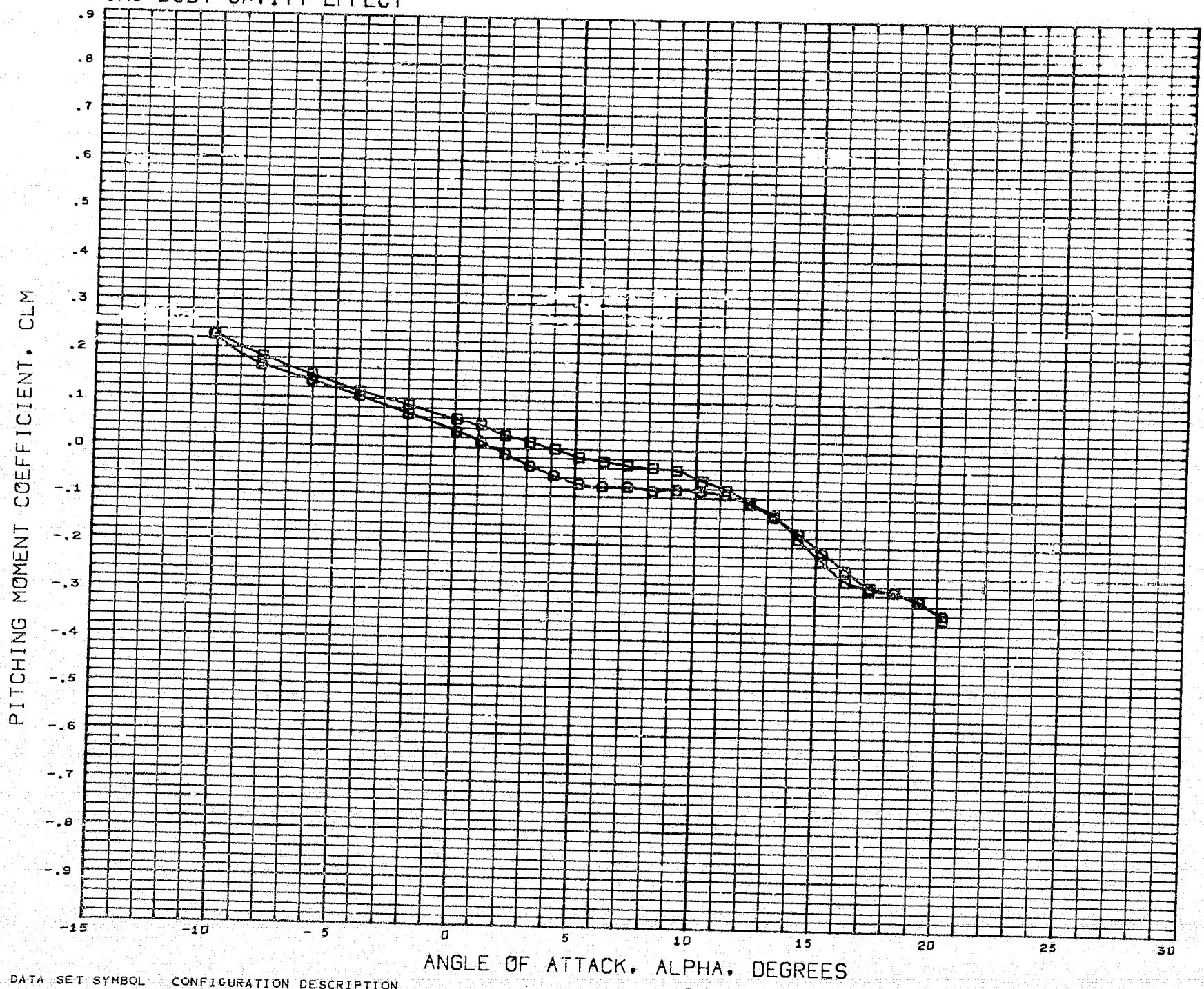
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	○	4.0 FC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1

PARAMETRIC VALUES

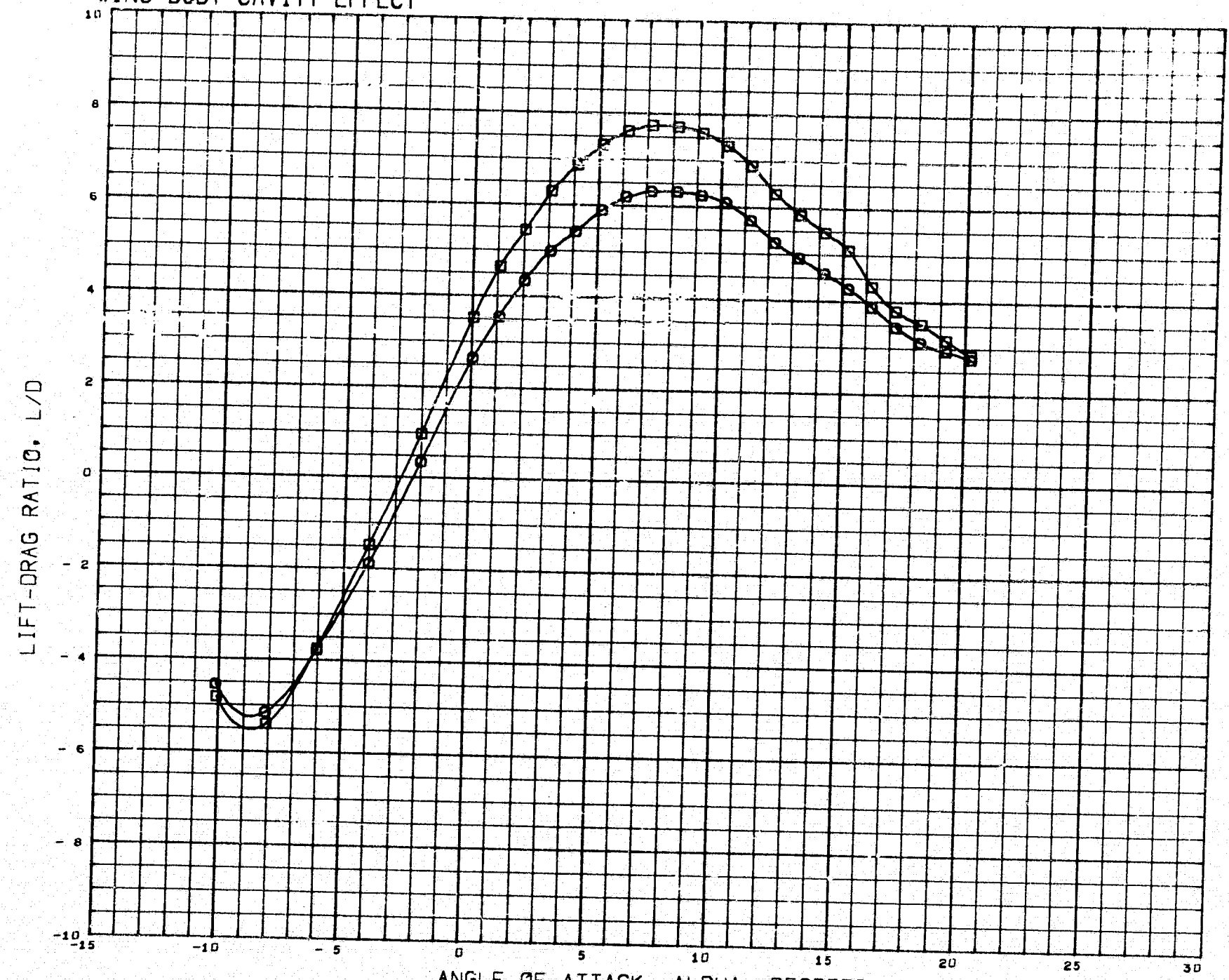
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	○	4.0 PC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 PC 01 LSWT 237 B4W1V1H1

ELEVTR 0.000

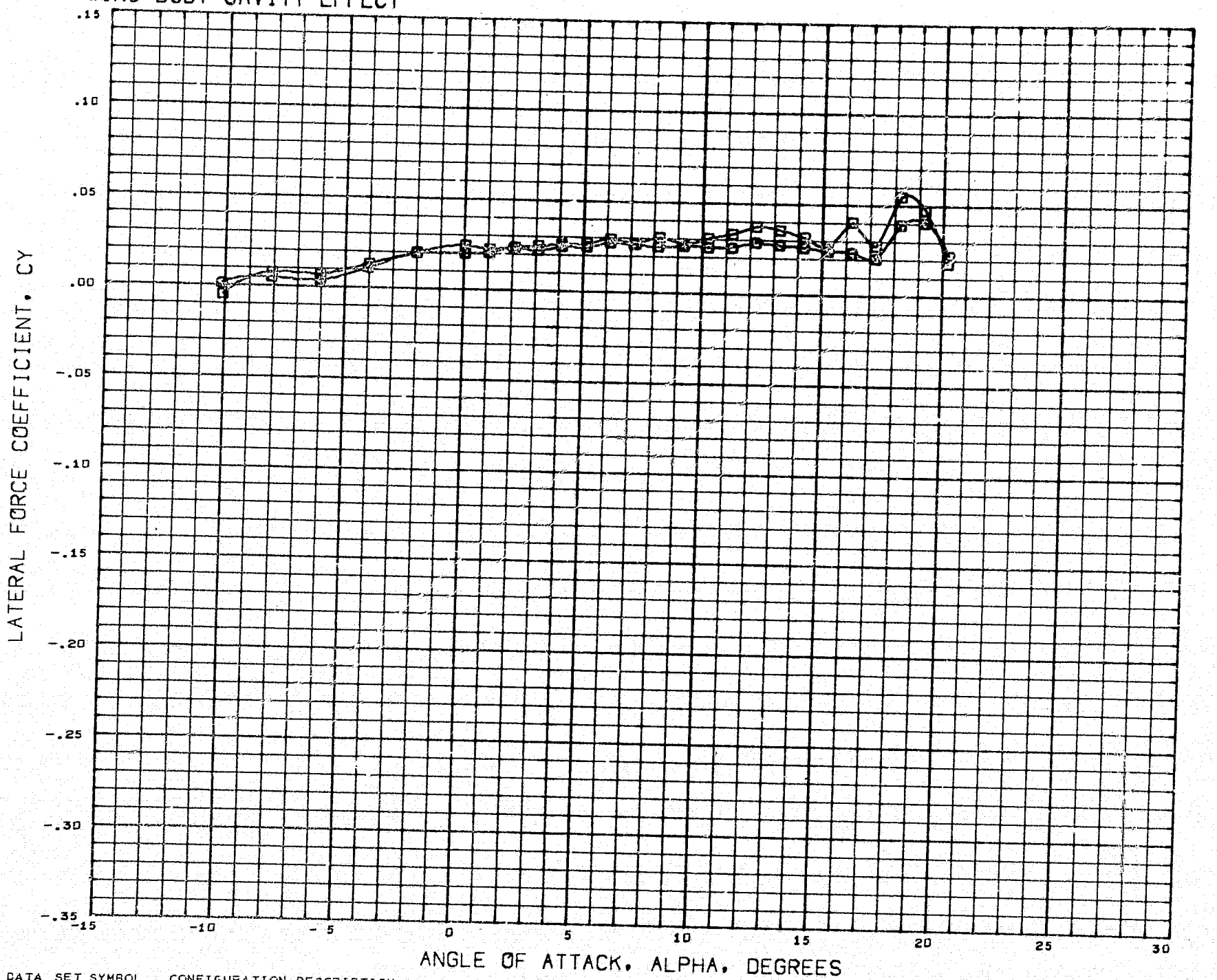
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	○	4.0 PC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 PC 01 LSWT 237 B4W1V1H1

PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0301	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	O	4.0 FC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1

PARAMETRIC VALUES

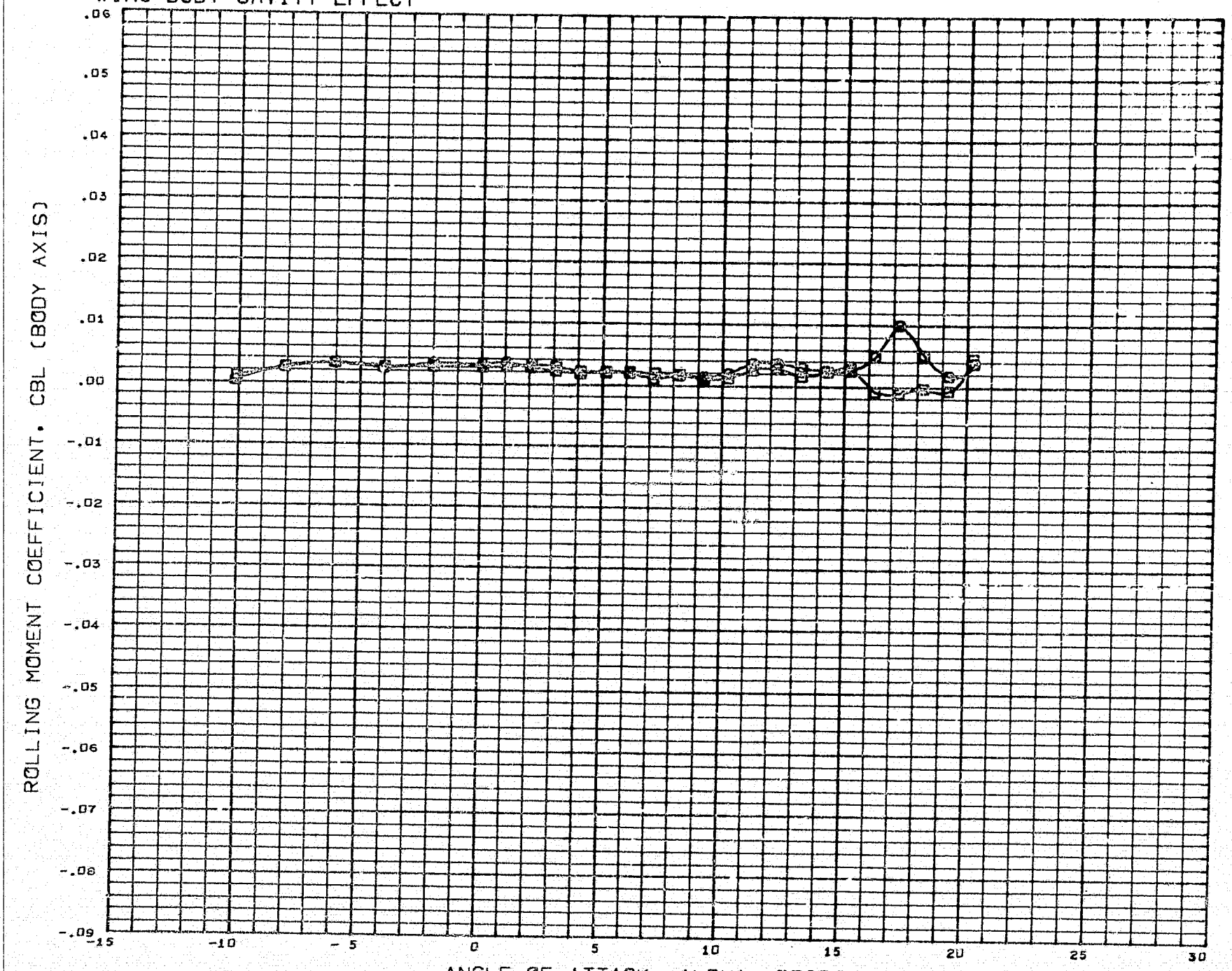
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	O	4.0 FC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1

PARAMETRIC VALUES

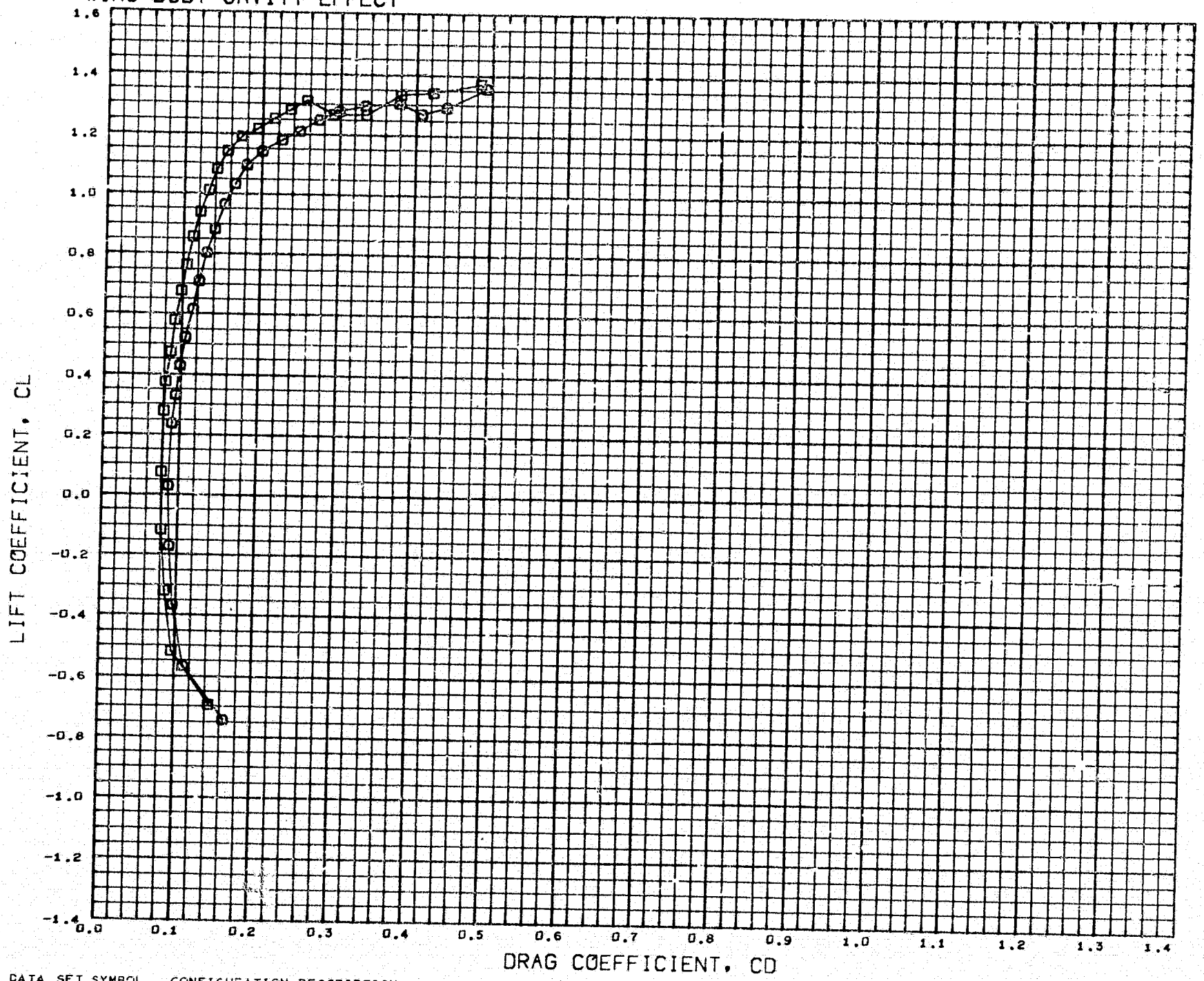
BETA 0.000 HTAIL - 5.000

ELEVTR 0.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0301	IN.
REFB	52.2000	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	○	4.0 FC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 FC 01 LSWT 237 B4W1V1H1

ELEVTR 0.000

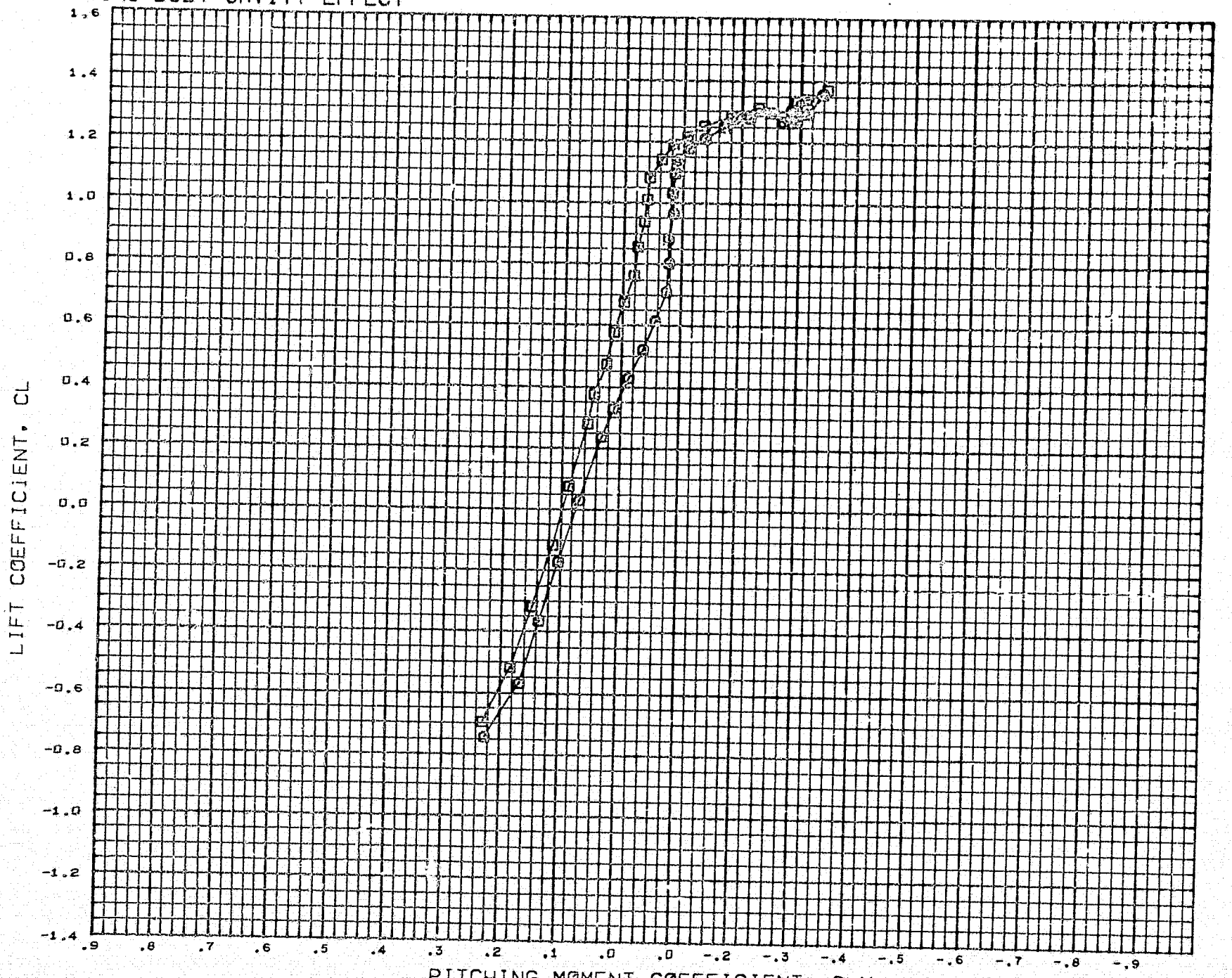
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2000	IN.
XMRP	37.0400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

WING-BODY CAVITY EFFECT



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD04A)	○	4.0 PC 01 LSWT 237 B3W1V1H1
(BCD04B)	□	4.0 PC 01 LSWT 237 D4W1V1H1

ELEVTR 0.000

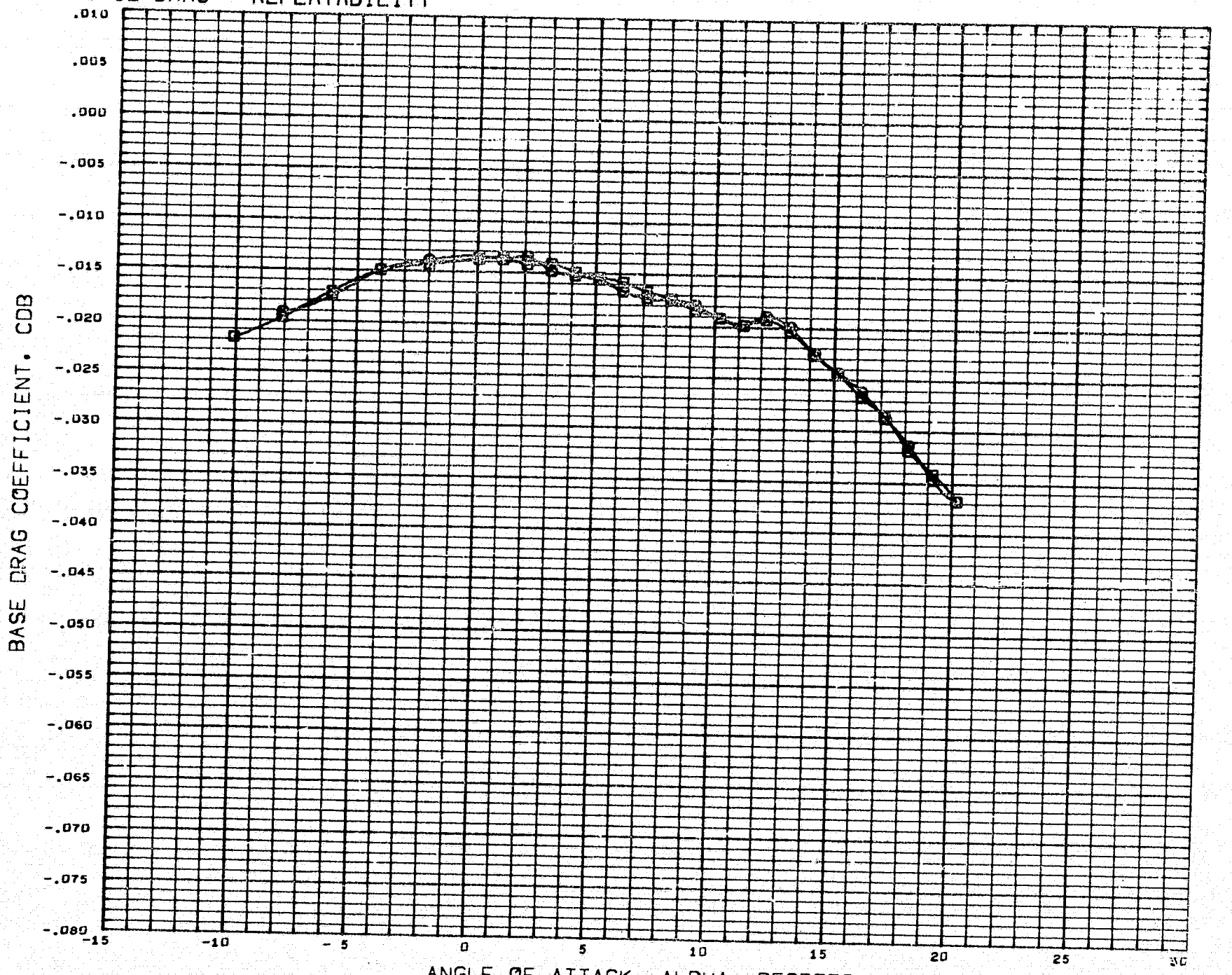
PARAMETRIC VALUES

BETA 0.000 HTAIL - 5.000

REFERENCE INFORMATION

REFS	389.4004	SQ. IN
REFL	8.0300	IN.
REFB	52.2500	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASE DRAG - REPEATABILITY



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(BCD045)	○	4.0 FC 01 LSWT 237 B4W2V1
(BCD044)	□	4.0 FC 01 LSWT 237 B4W2V1

ELEVTR 0.000

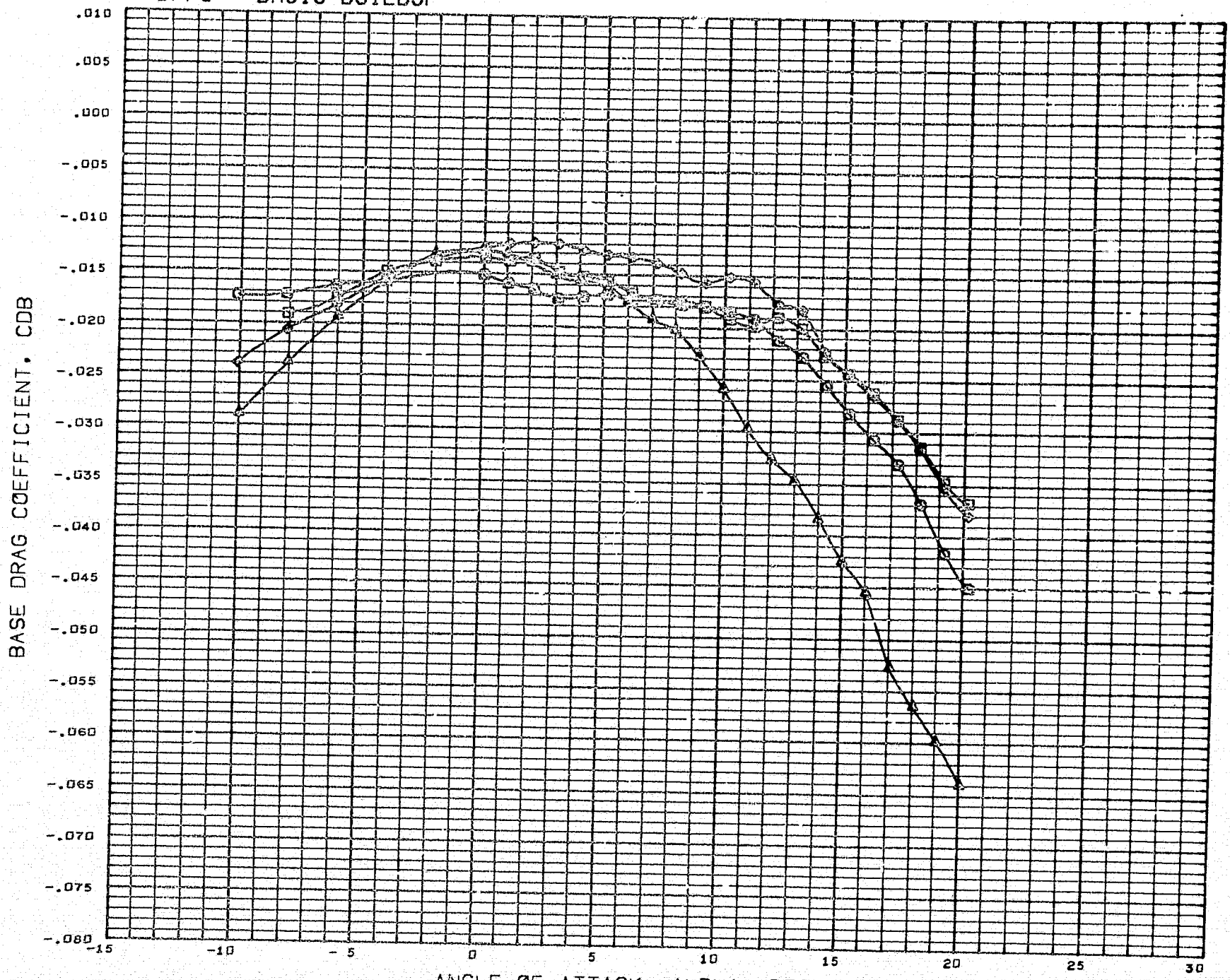
PARAMETRIC VALUES

BETA 0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASE DRAG - BASIC BUILDUP



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(DCDA04)	○	4.0 PC 01 LSWT 237 B4W2V1H1
(BCD040)	□	4.0 PC 01 LSWT 237 B4W2V1
(BCD015)	◇	4.0 PC 01 LSWT 237 B4W2
(BCD000)	△	4.0 PC 01 LSWT 237 B4

ELEVTR 0.000

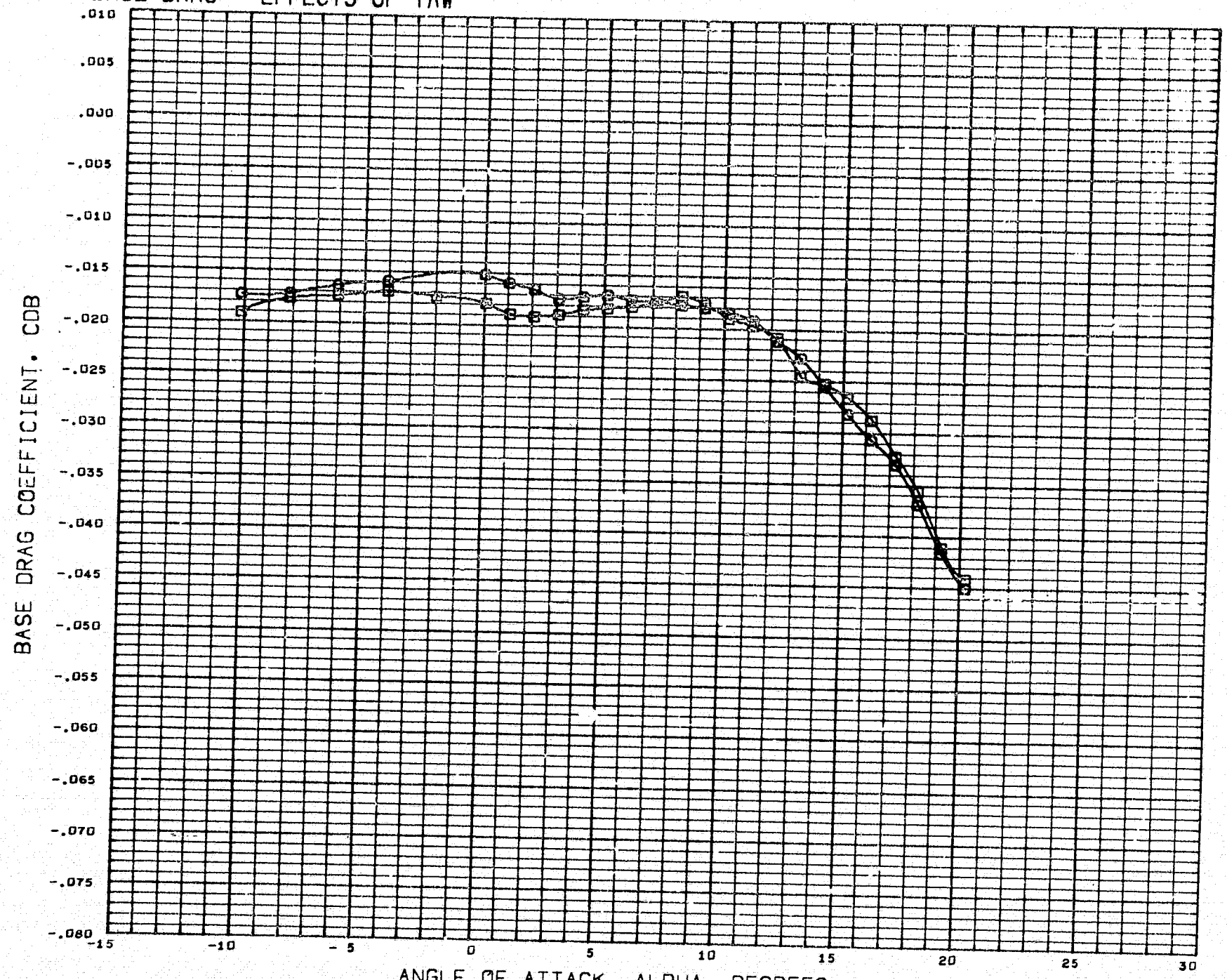
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5101	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASE DRAG - EFFECTS OF YAW



SYMBOL	BETA		PARAMETRIC VALUES		
○	0.000	ELEVTR	0.000	HTAIL	- 5.000
□	5.000	SP-L	0.000	SP-R	0.000

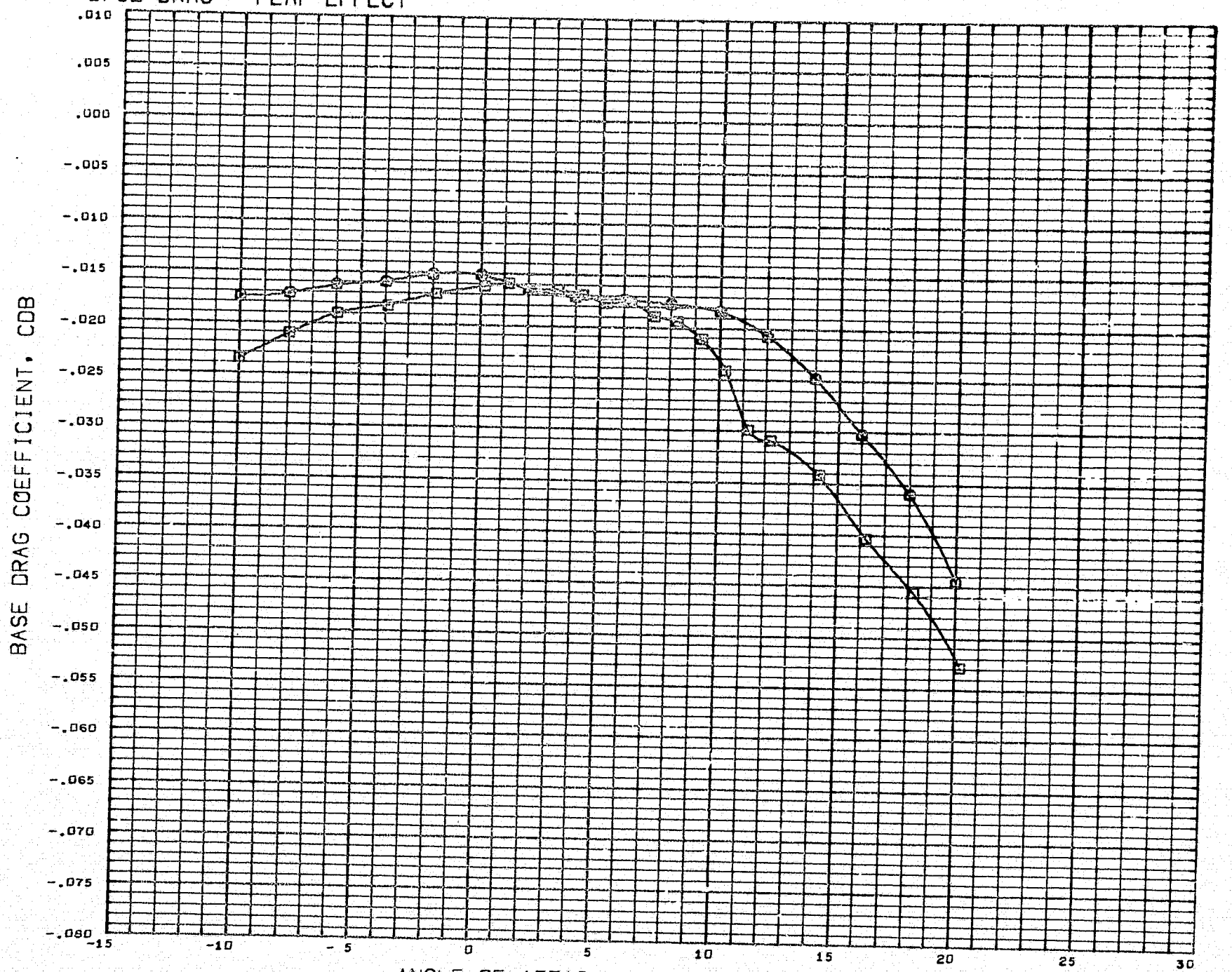
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*A

4.0 PC 01 LSWT 237 B4W2V1H1

BASE DRAG - FLAP EFFECT



SYMBOL	FLAP	PARAMETRIC VALUES			
O	0.000	ELEVTR	0.000	BETA	0.000
□	45.000	HTAIL	-5.000	RUDDER	0.000

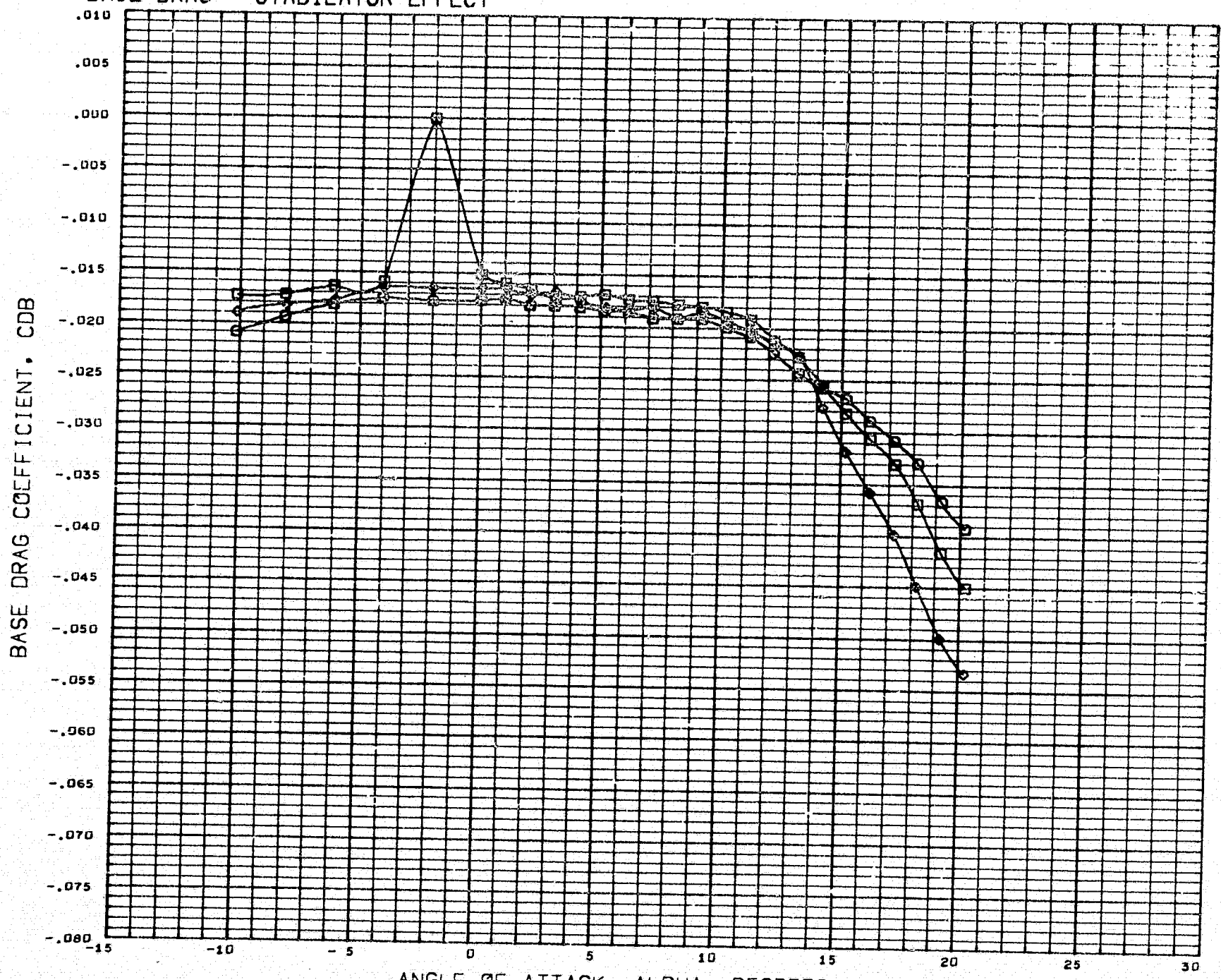
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E*AIM

4.0 PC 01 LSWT 237 B4W2V1H1

BASE DRAG - STABILATOR EFFECT



SYMBOL	HTAIL		PARAMETRIC VALUES
○	-10.000	BETA	0.000
□	-5.000		
◇	0.000		

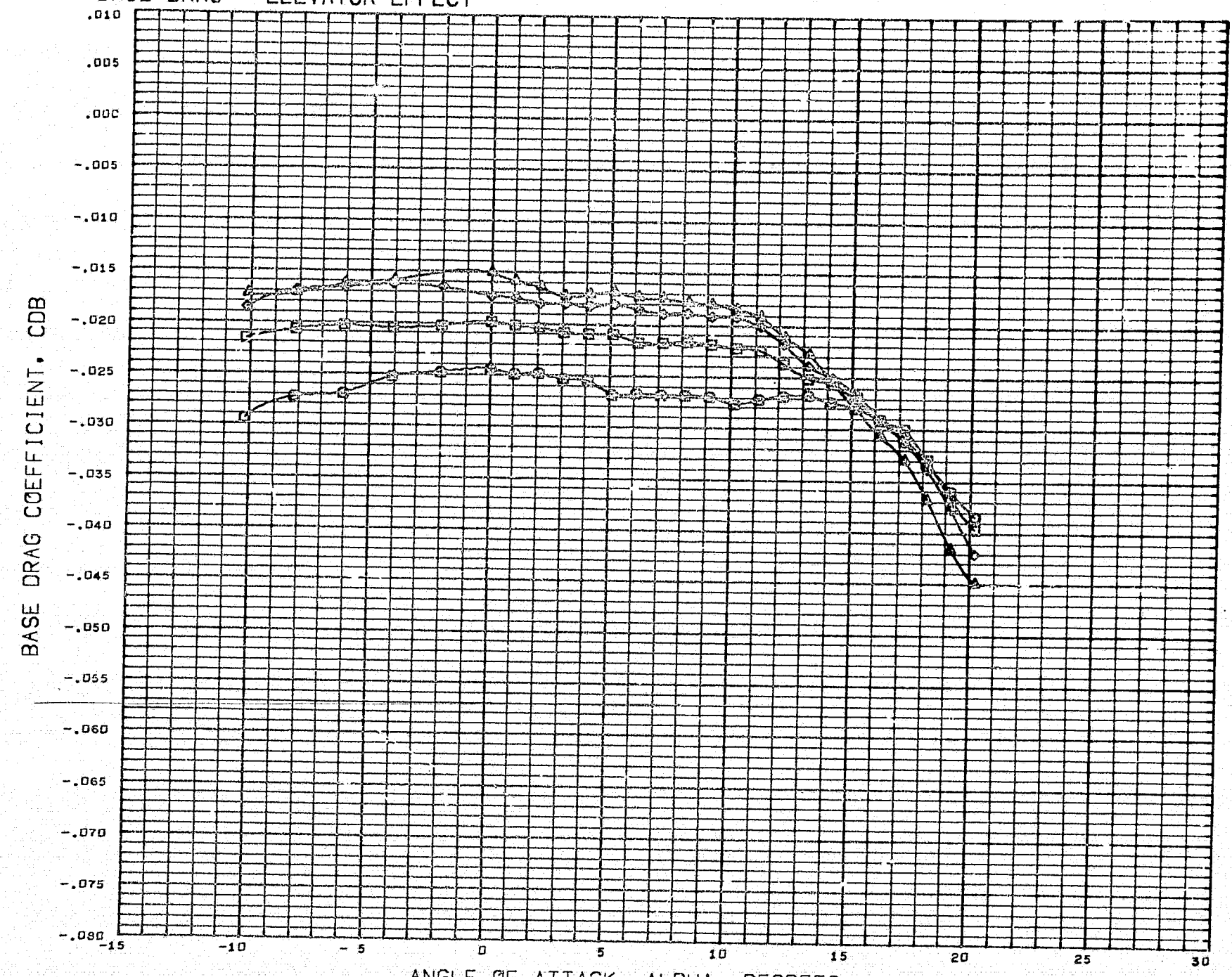
REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

DATA HIST. CODE V*E

4.0 PC 01 LSWT 237 B4W2V1H1

BASE DRAG - ELEVATOR EFFECT



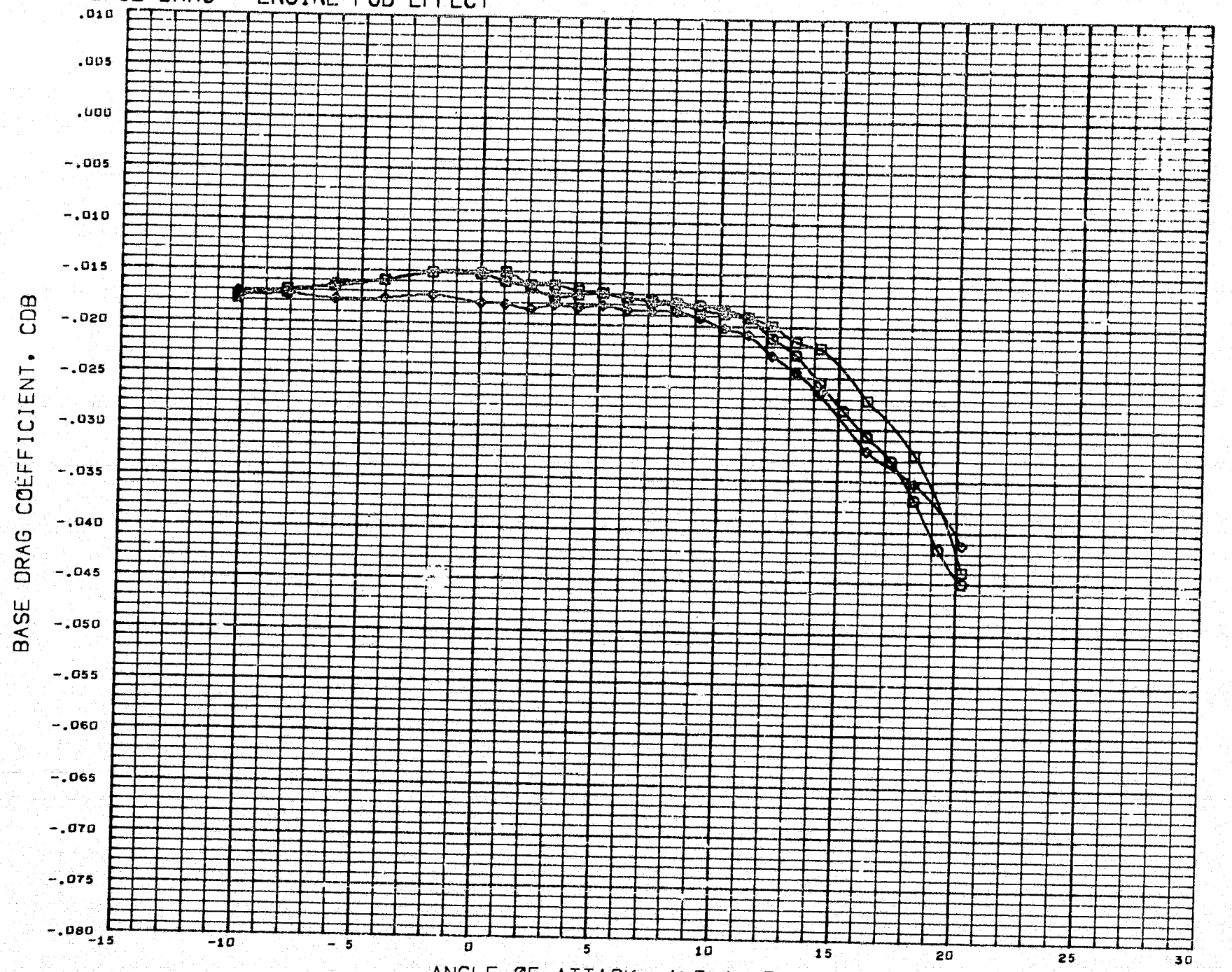
SYMBOL	ELEVTR		PARAMETRIC VALUES		
○	- 15.000	BETA	0.000	HTAIL	- 5.000
□	- 10.000	SP-L	0.000	SP-R	0.000
◇	- 5.000				
△	0.000				

DATA HIST. CODE V*E

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASE DRAG - ENGINE POD EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA74)	□	4.0 FC 01 LSWT 237 B4W2V1H1P3D2
(BCDA8D)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P1D2

ELEVTR 0.000

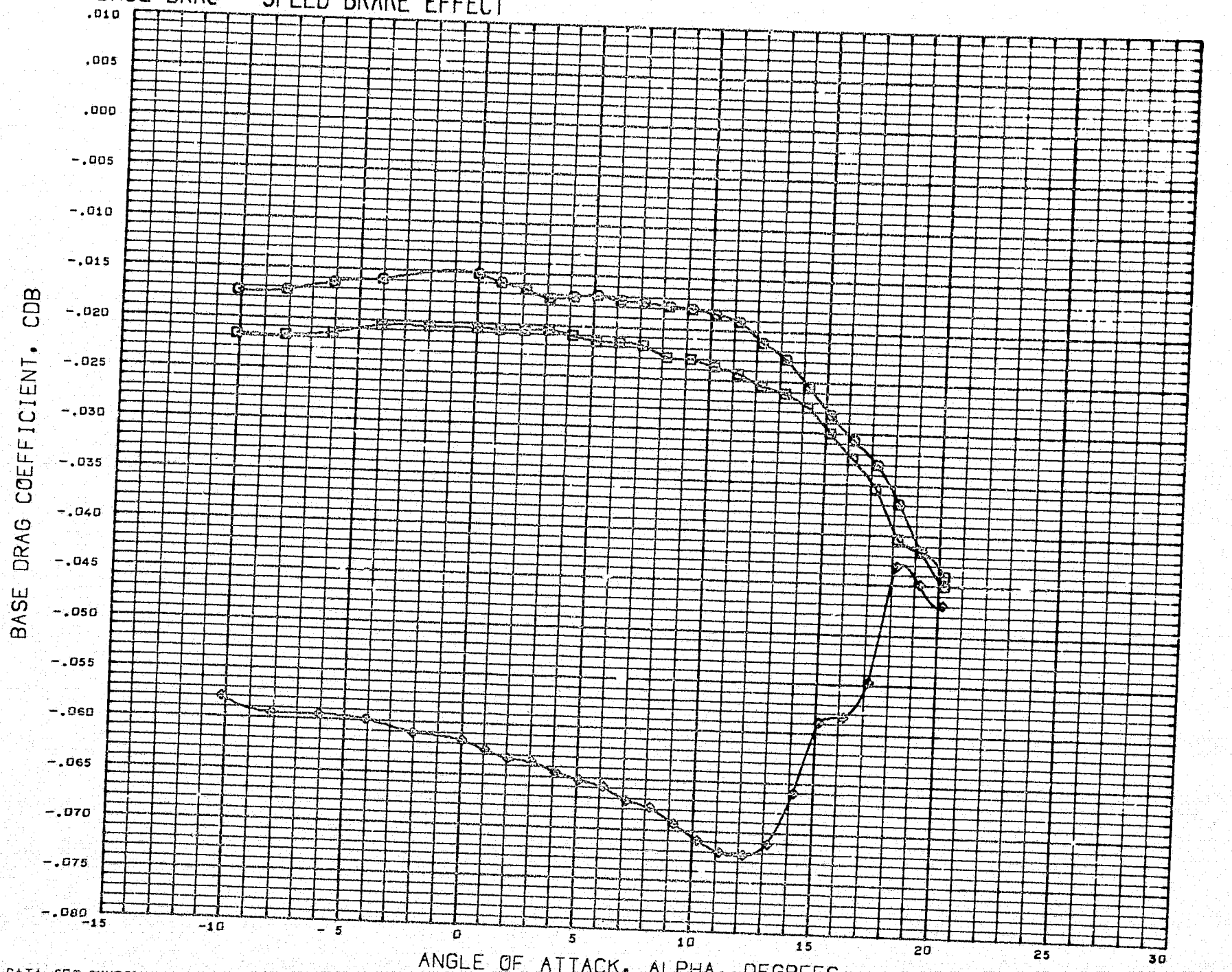
PARAMETRIC VALUES

BETA	0.000	HTAIL -	5.000
SP-L	0.000	SP-R	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	25.3700	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

BASE DRAG - SPEED BRAKE EFFECT



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(BCDA04)	○	4.0 FC 01 LSWT 237 B4W2V1H1
(BCDA90)	□	4.0 FC 01 LSWT 237 B4W2V1H1SB1
(BCDA91)	◇	4.0 FC 01 LSWT 237 B4W2V1H1SB2

ELEVTR 0.000

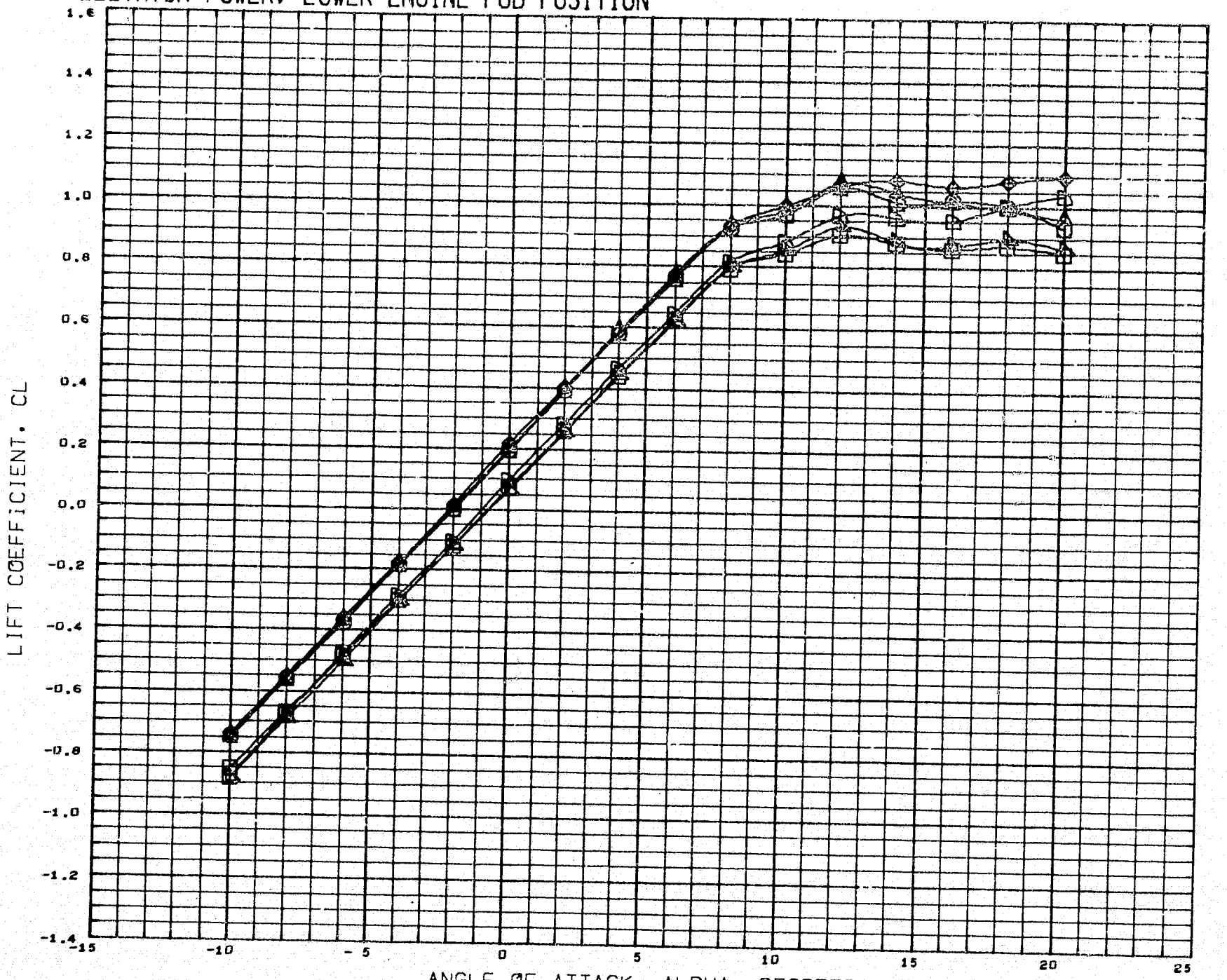
PARAMETRIC VALUES

BETA	0.000	HTAIL	-	5.000	
SF-L	0.000	SF-R		0.000	

REFERENCE INFORMATION

REFS	437.7704	SQ. IN
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PER CE

ELEVATOR POWER, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB02)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB03)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB18)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB19)		4.0 PC 01 LSWT 237 B4W2V1H1P4

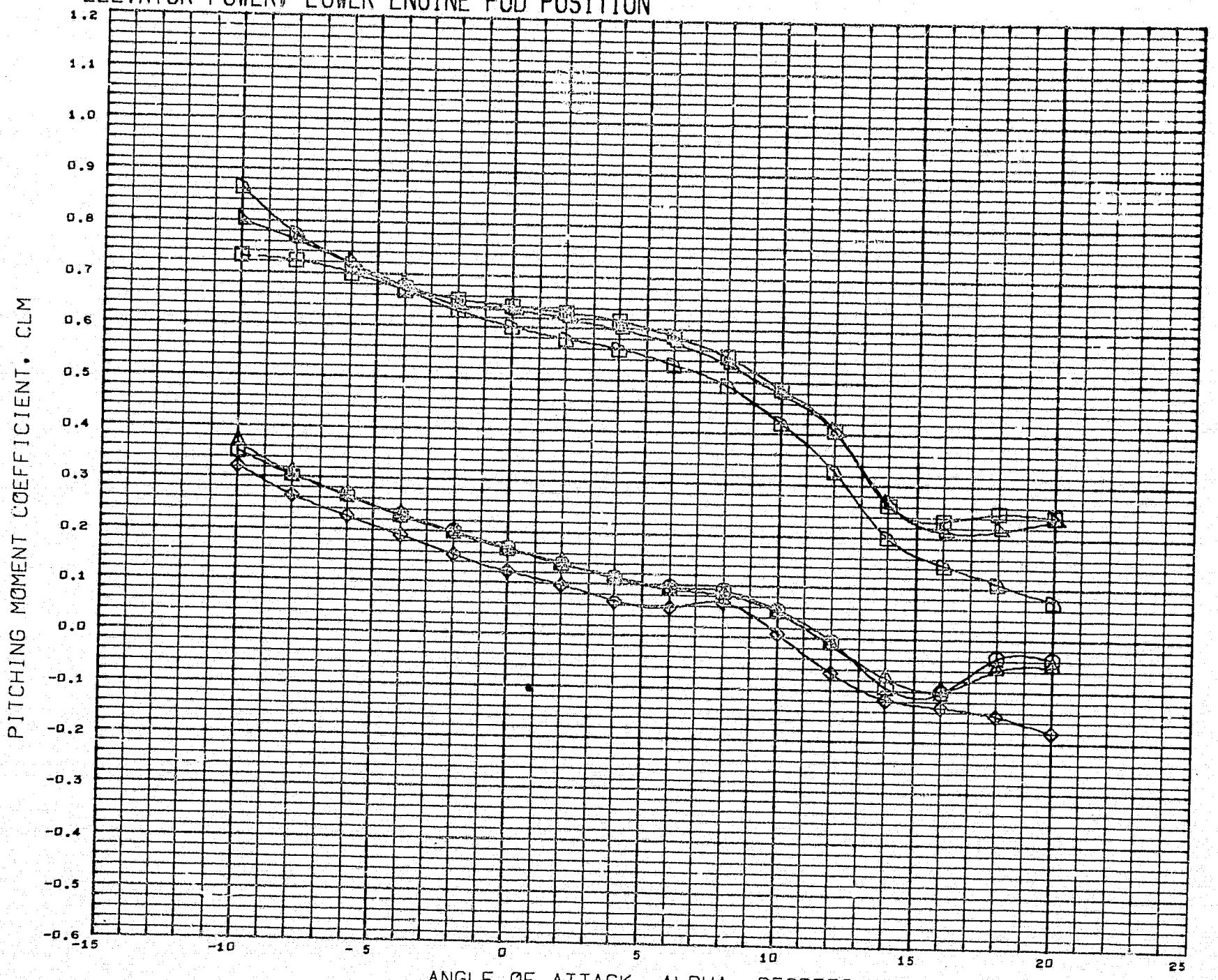
MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	1.100	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LOWER ENGINE POD POSITION



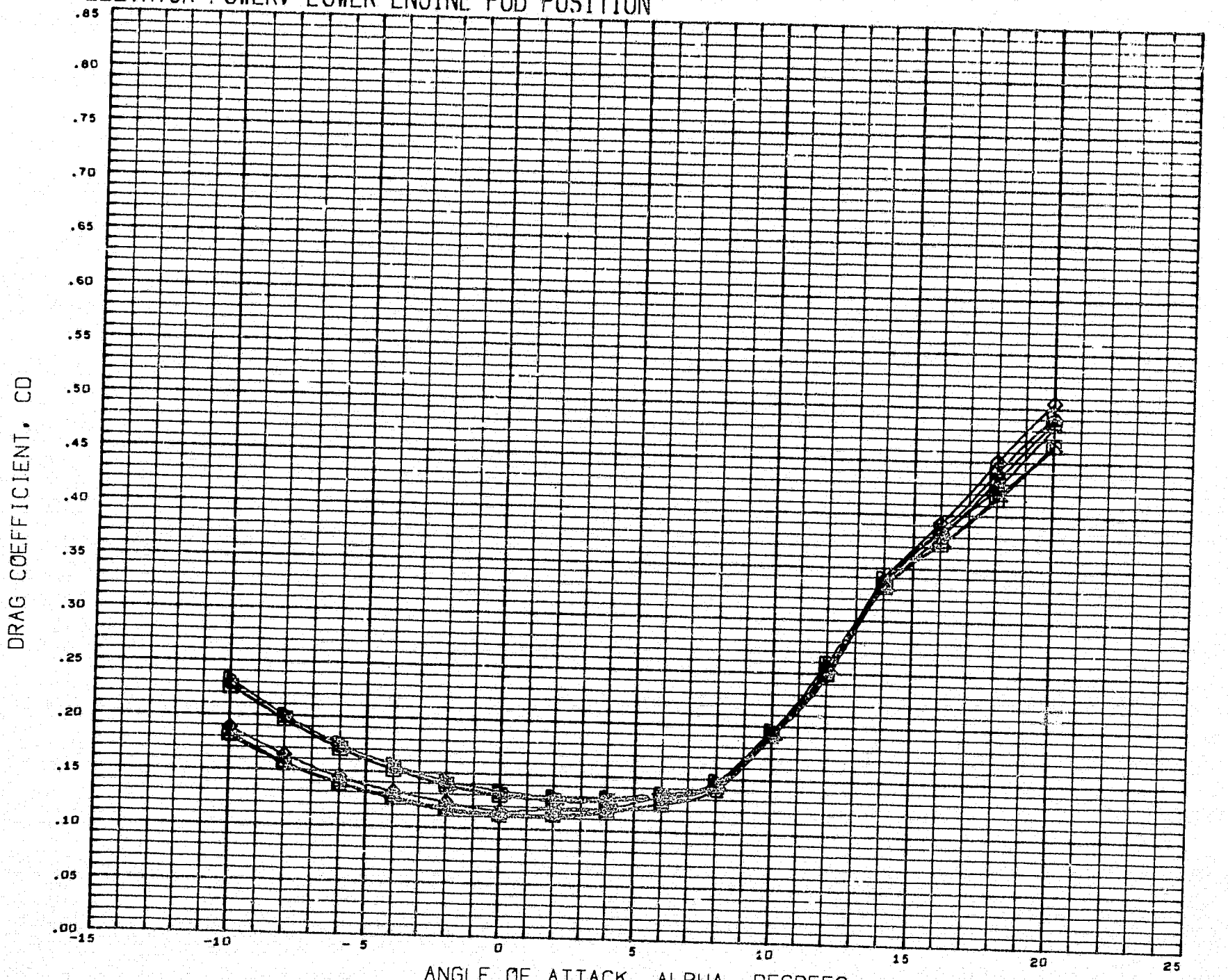
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB02)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB03)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB17)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB18)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB19)		4.0 FC 01 LSWT 237 B4W2V1H1F4

MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	1.100	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB02)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB03)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB18)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB19)		4.0 PC 01 LSWT 237 B4W2V1H1P4

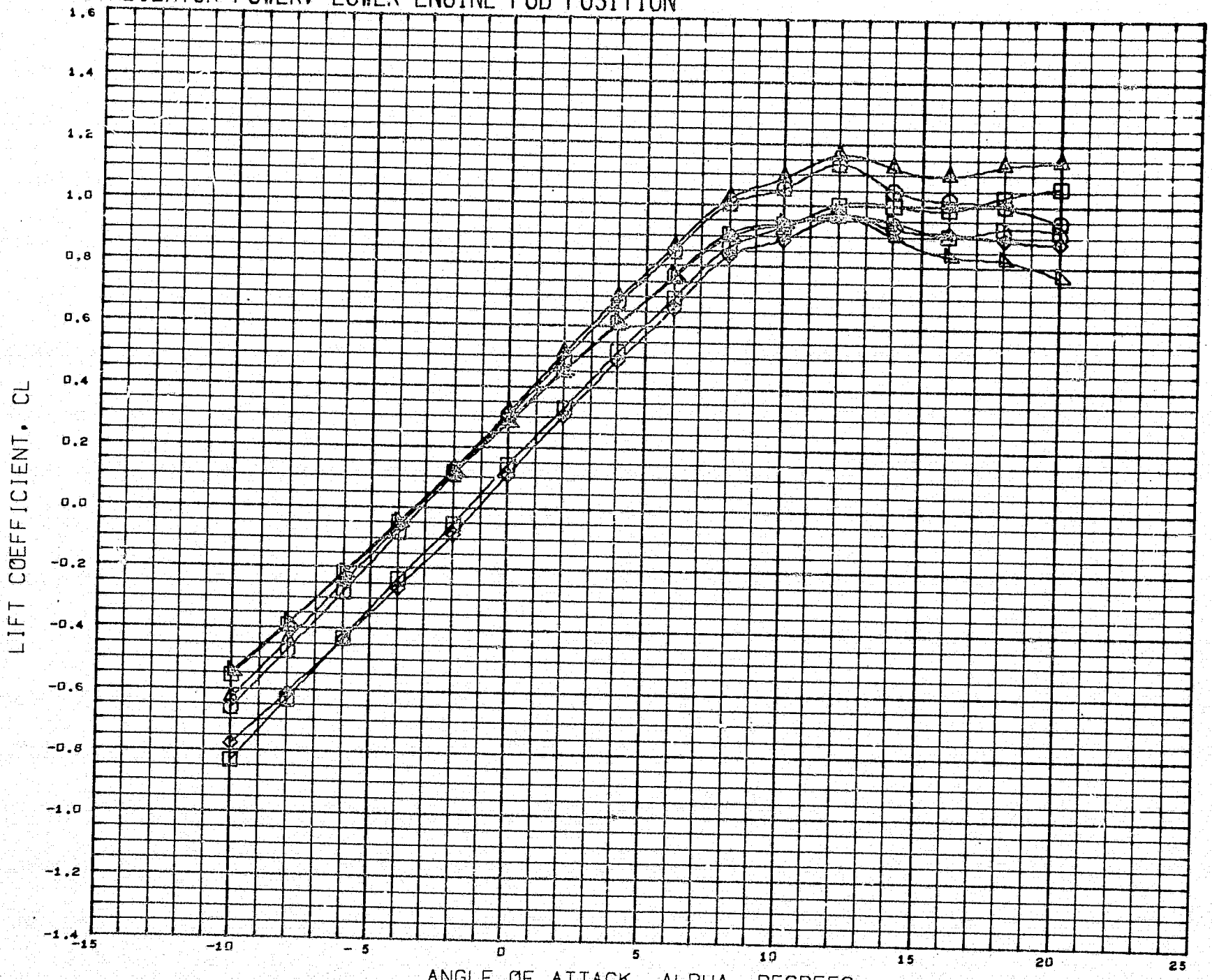
MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	1.100	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILAIOR POWER, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB24)		4.0 PC 01 LSWT 237 B4W2V1H1F4
(CCDB25)		4.0 PC 01 LSWT 237 B4W2V1H1F4
(CCDB26)		4.0 PC 01 LSWT 237 B4W2V1H1F4
(CCDB27)		4.0 PC 01 LSWT 237 B4W2V1H1F4
(CCDB39)		4.0 PC 01 LSWT 237 B4W2V1F4
(CCDB40)		4.0 PC 01 LSWT 237 B4W2V1F4

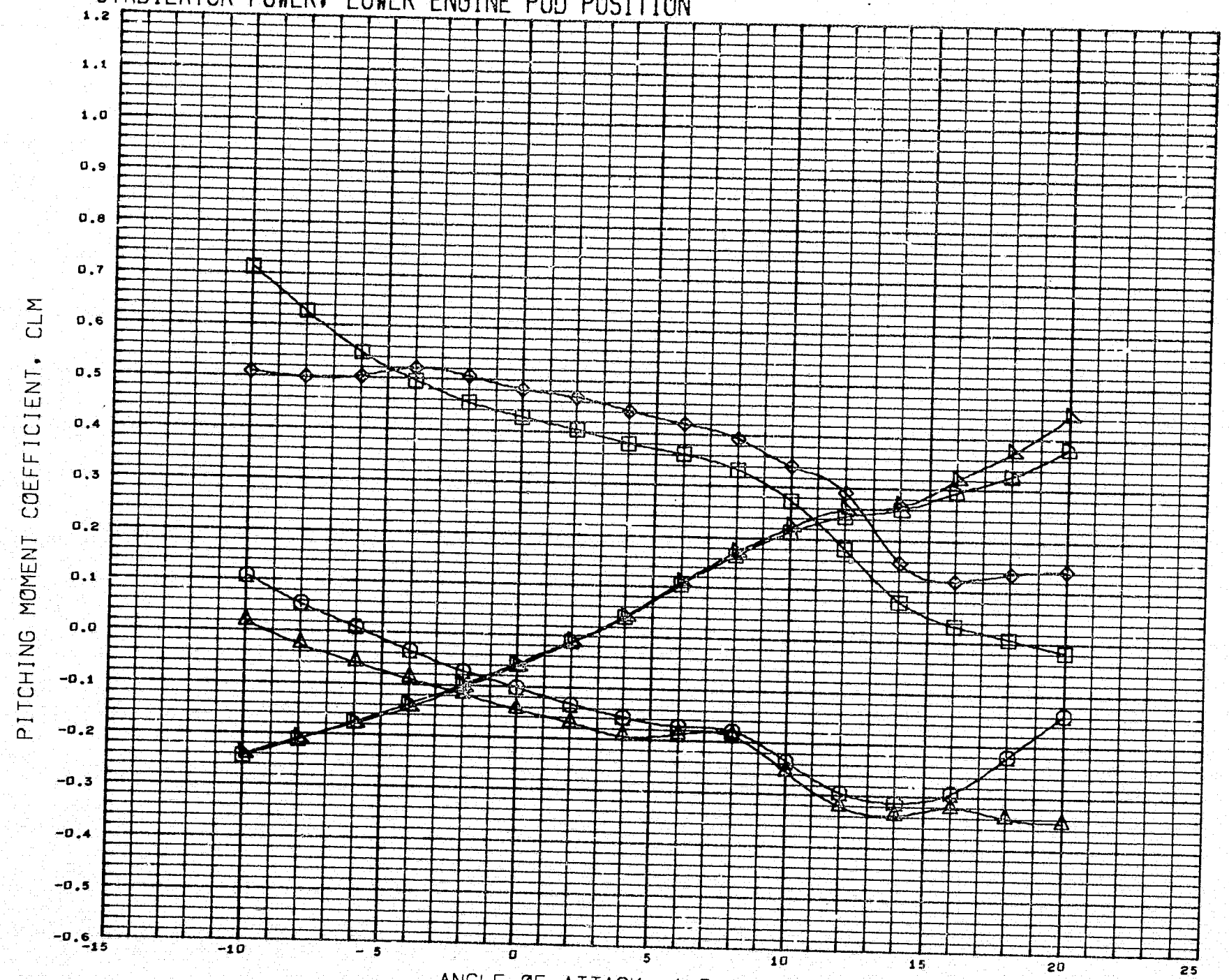
MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILATOR POWER, LOWER ENGINE POD POSITION



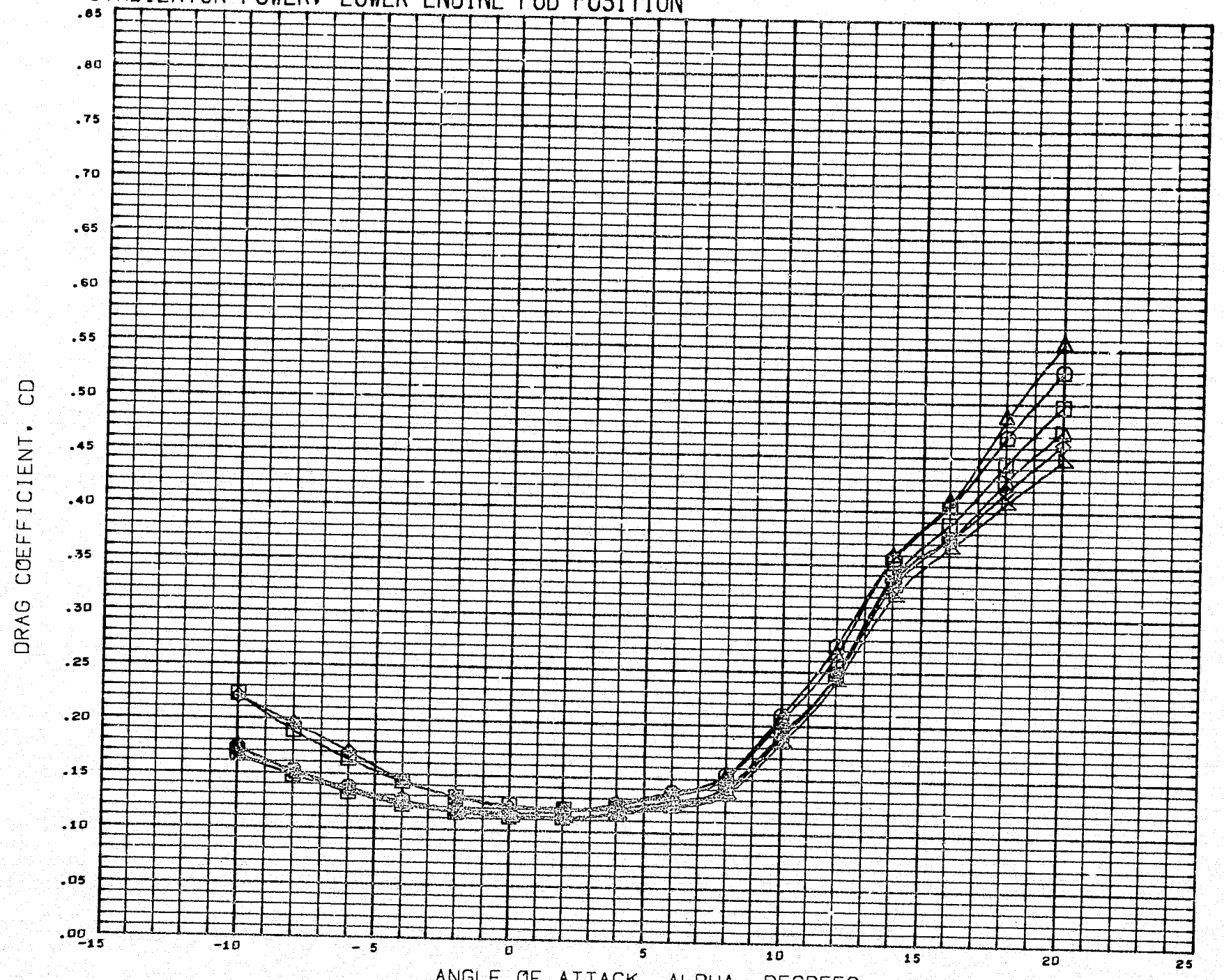
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB24)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB25)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB26)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB27)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB39)		4.0 FC 01 LSWT 237 B4W2V1P4
(CCDB40)		4.0 FC 01 LSWT 237 B4W2V1P4

MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILATOR POWER, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB24)		4.0 PC 01 LSWT 237 F4W2V1H1P4
(CCDB25)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB26)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB27)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB39)		4.0 PC 01 LSWT 237 B4W2V1F4
(CCDB40)		4.0 PC 01 LSWT 237 B4W2V1F4

MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB10)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)		4.0 PC 01 LSWT 237 B4W2V1H1P4

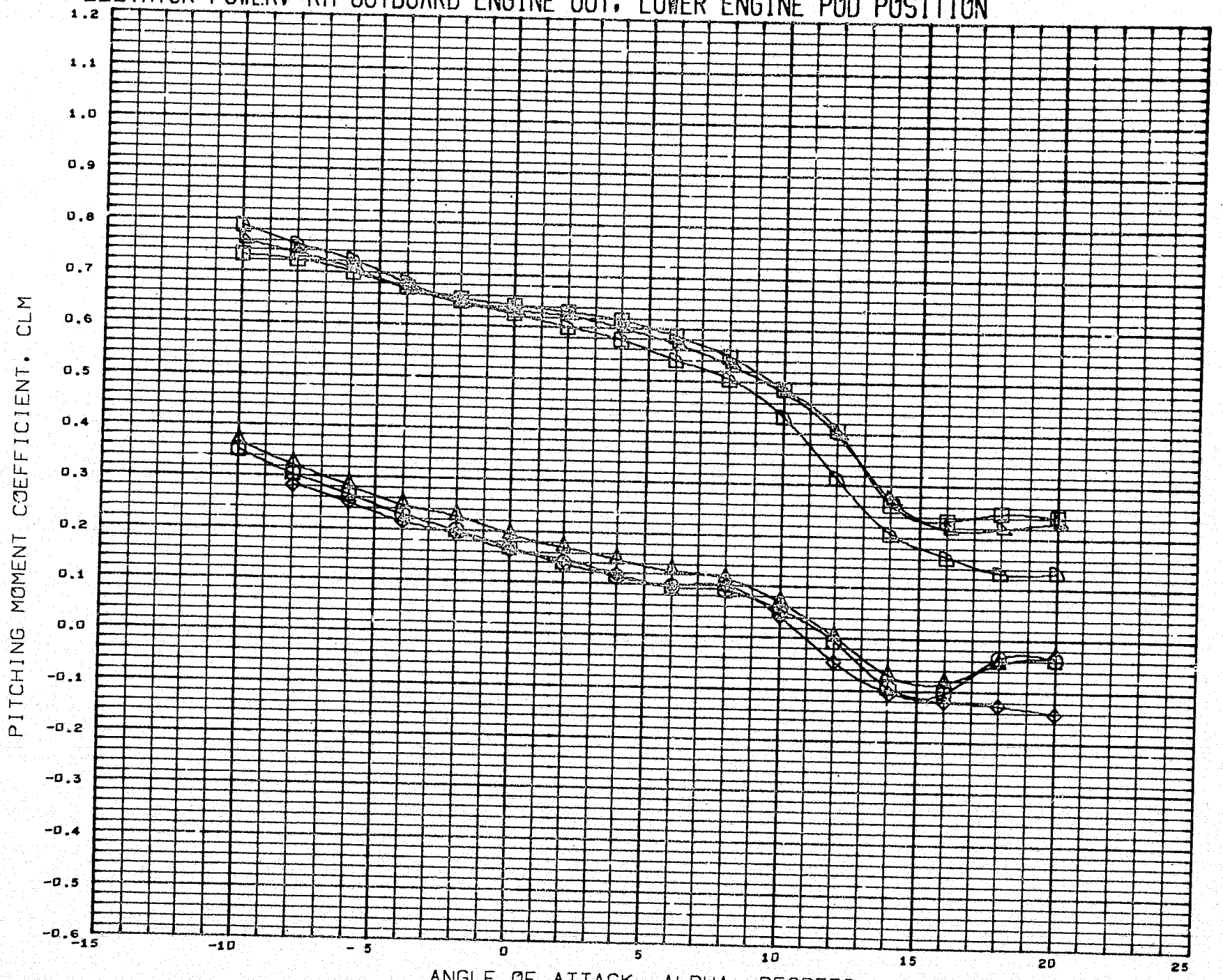
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB10)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)		4.0 PC 01 LSWT 237 B4W2V1H1P4

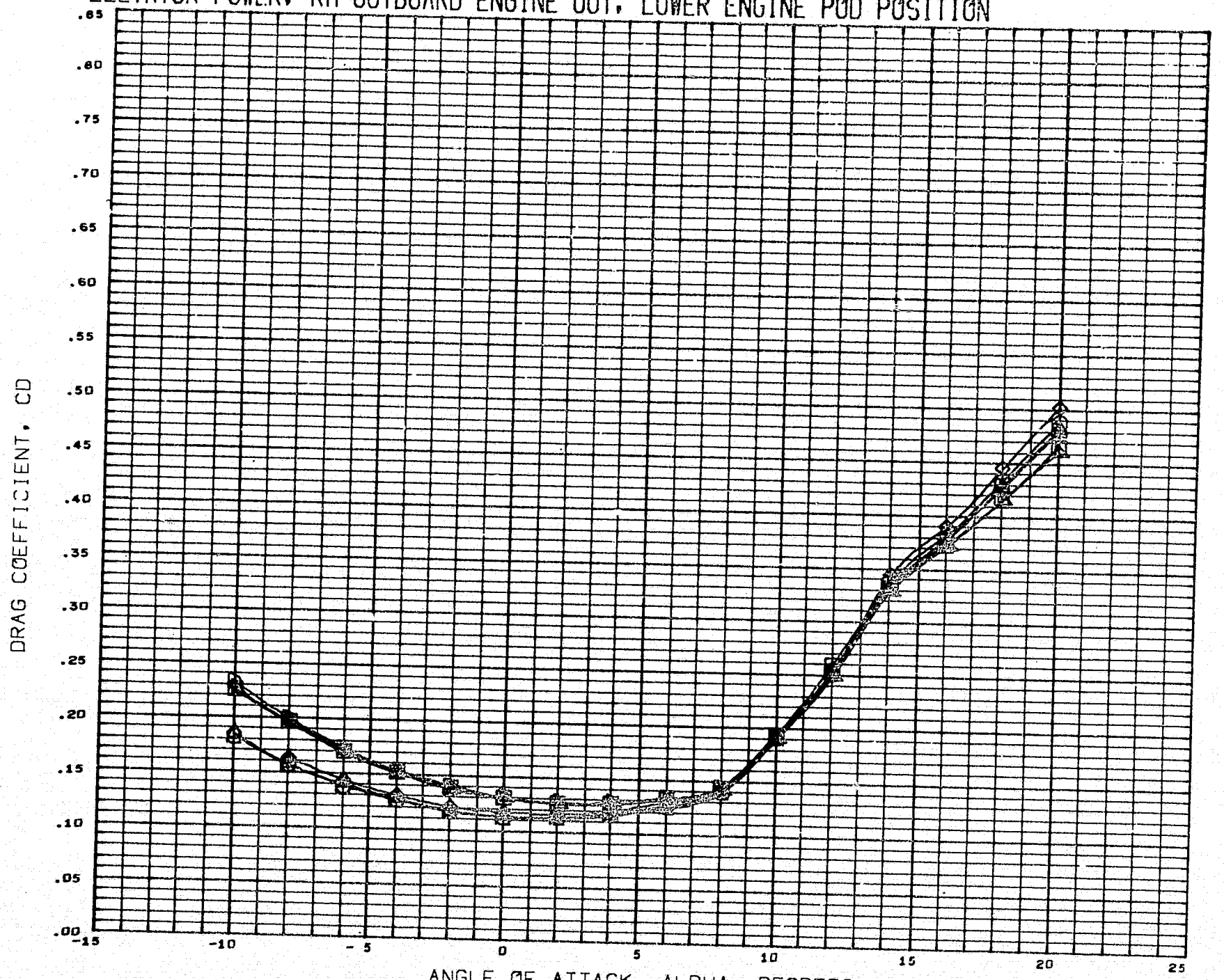
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION



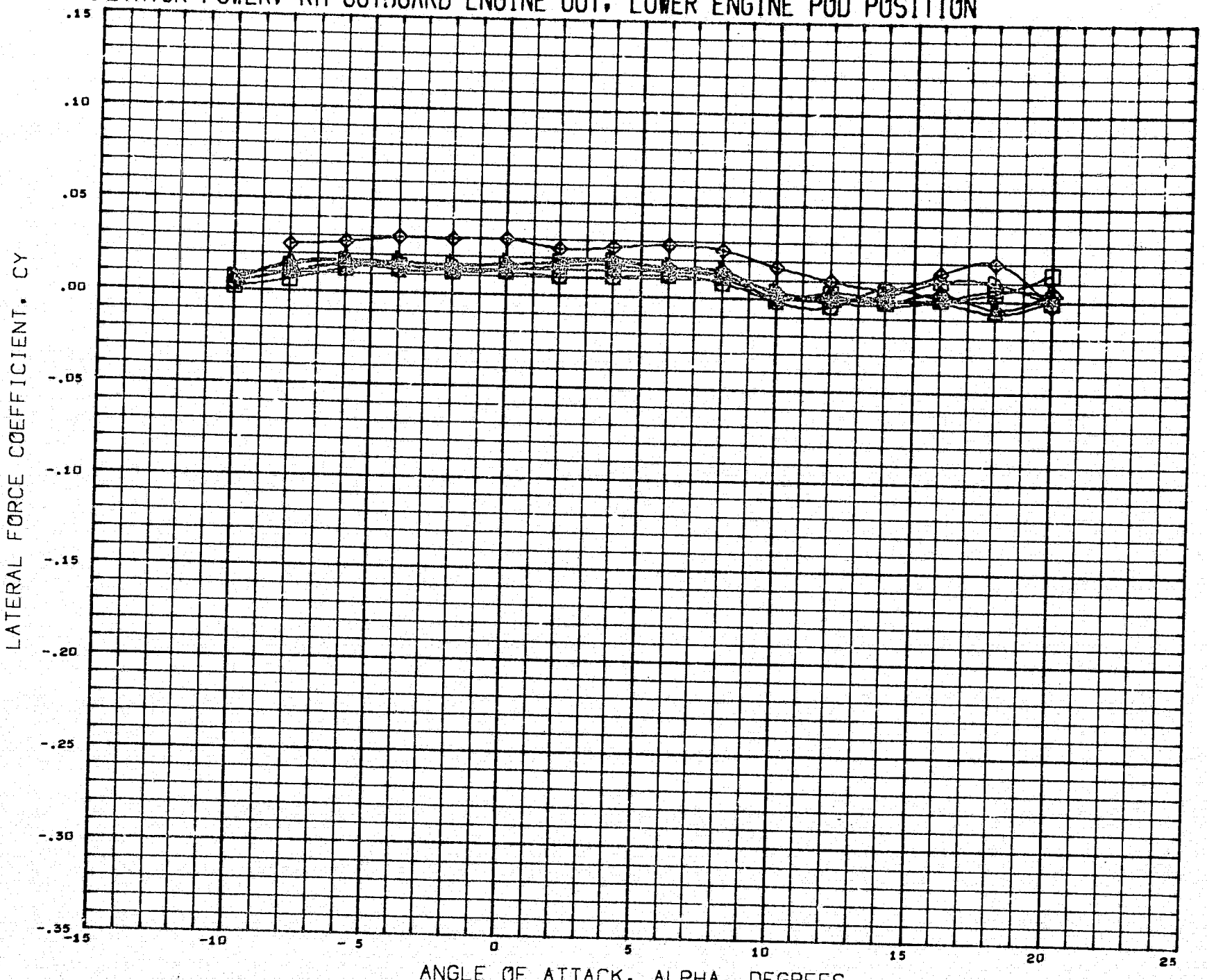
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)	○	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB10)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)	▷	4.0 PC 01 LSWT 237 B4W2V1H1P4

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB10)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)		4.0 PC 01 LSWT 237 B4W2V1H1P4

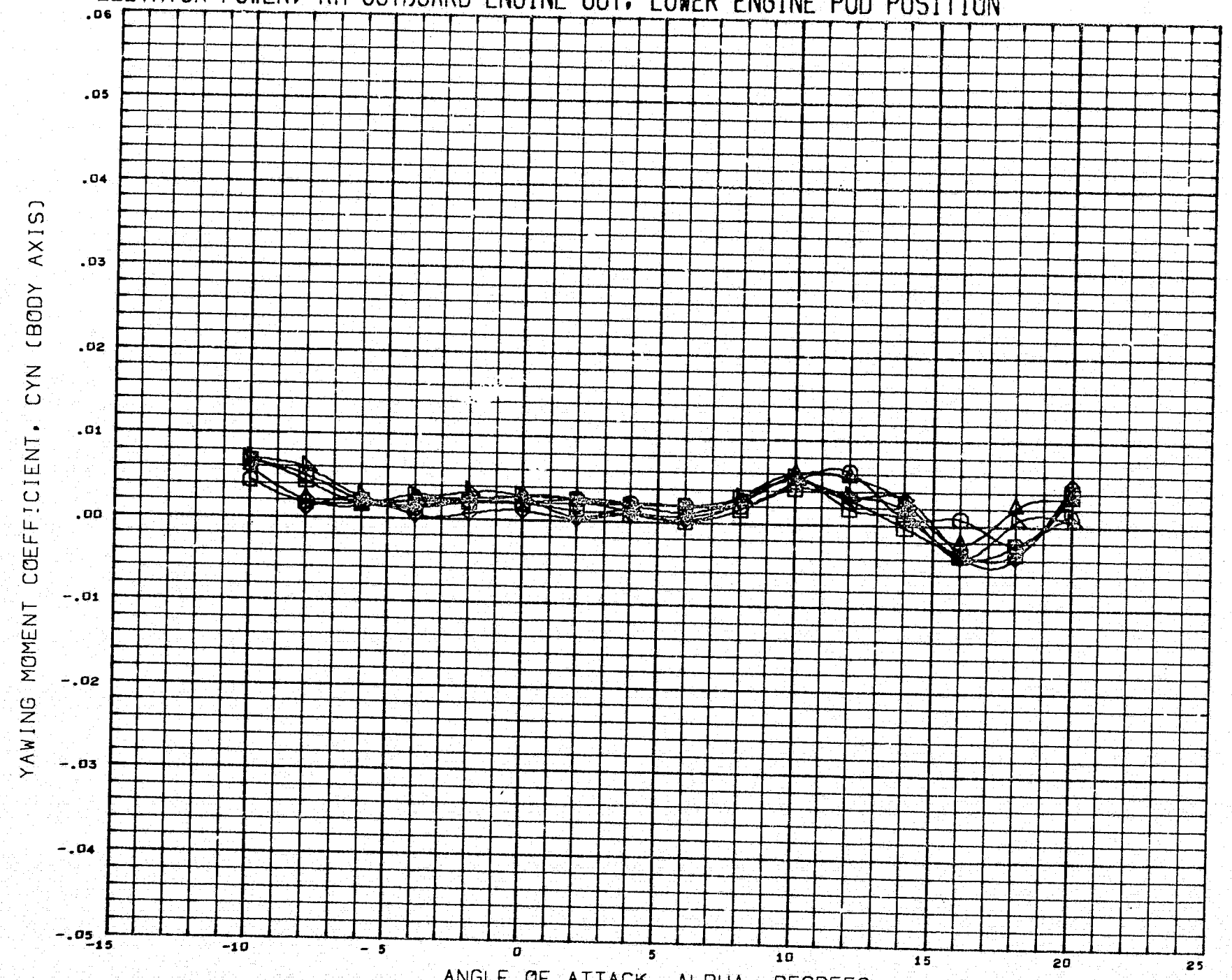
MACH 0.260

ELEVTR	FE/FO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)	○	4.0 PC 01 LSWT 237 E4W2V1H1P4
(CCDB10)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)	▷	4.0 PC 01 LSWT 237 B4W2V1H1P4

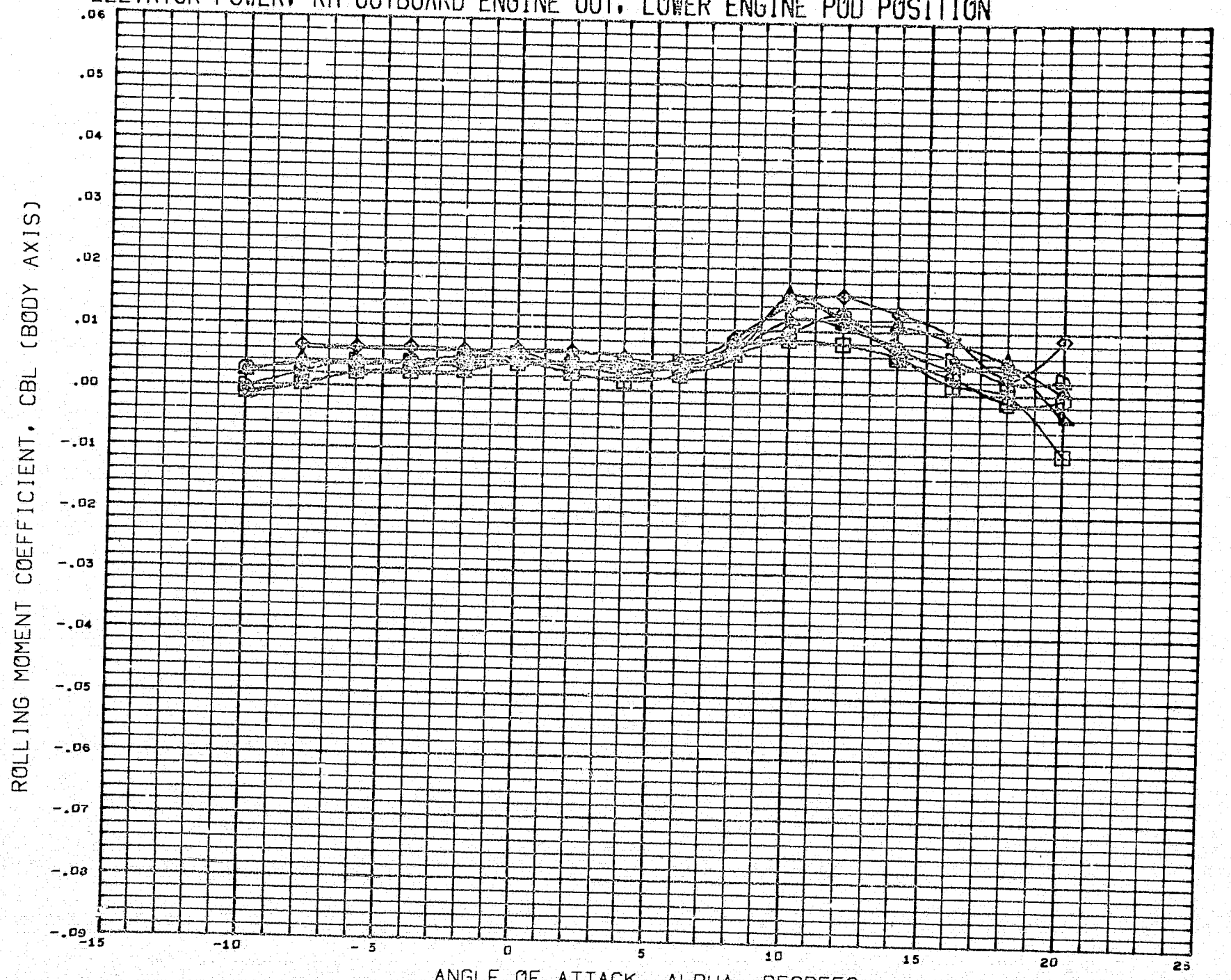
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION



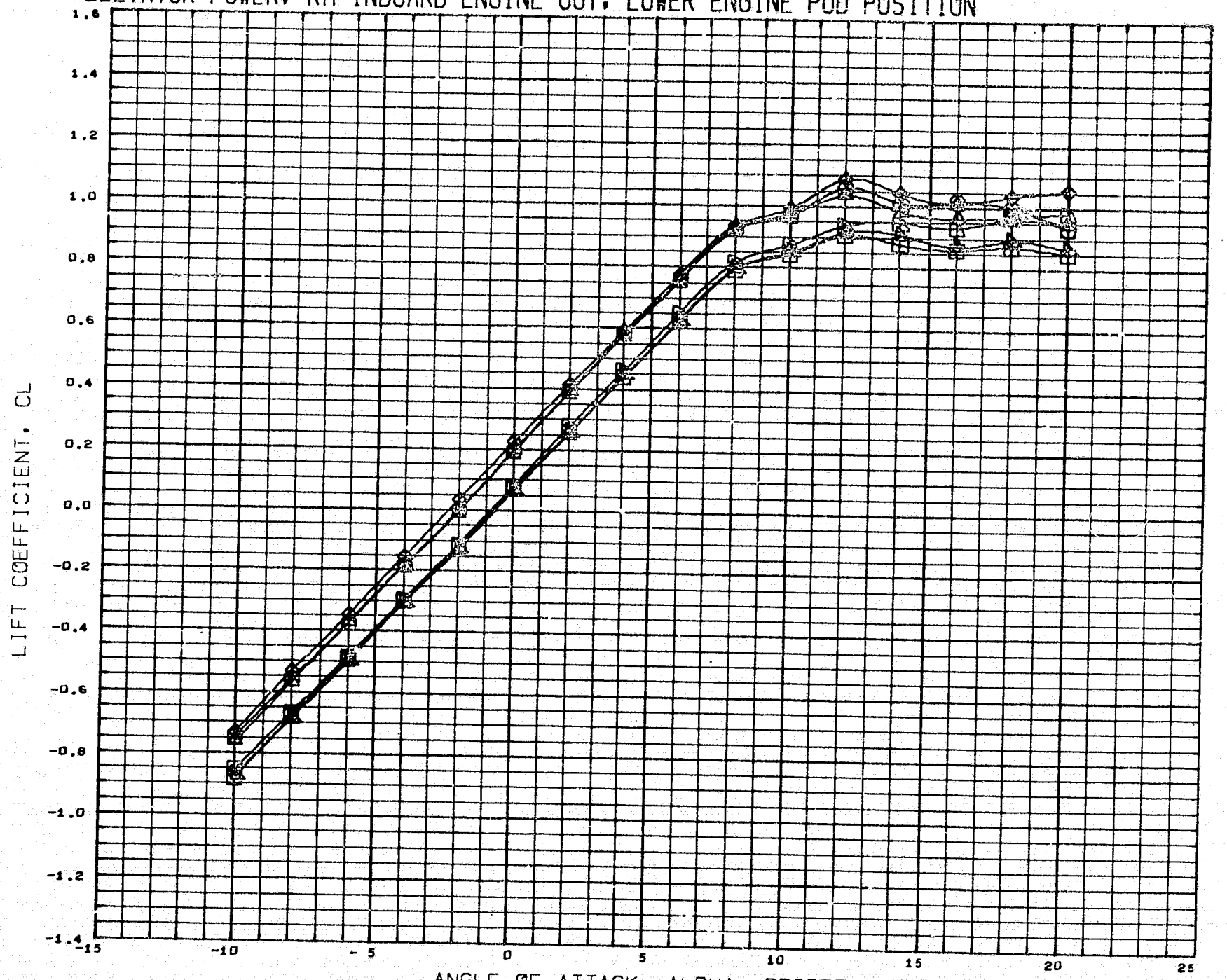
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB10)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB13)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB20)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB21)		4.0 PC 01 LSWT 237 B4W2V1H1P4

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB11)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB15)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB17)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB22)		4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB23)		4.0 FC 01 LSWT 237 B4W2V1H1F4

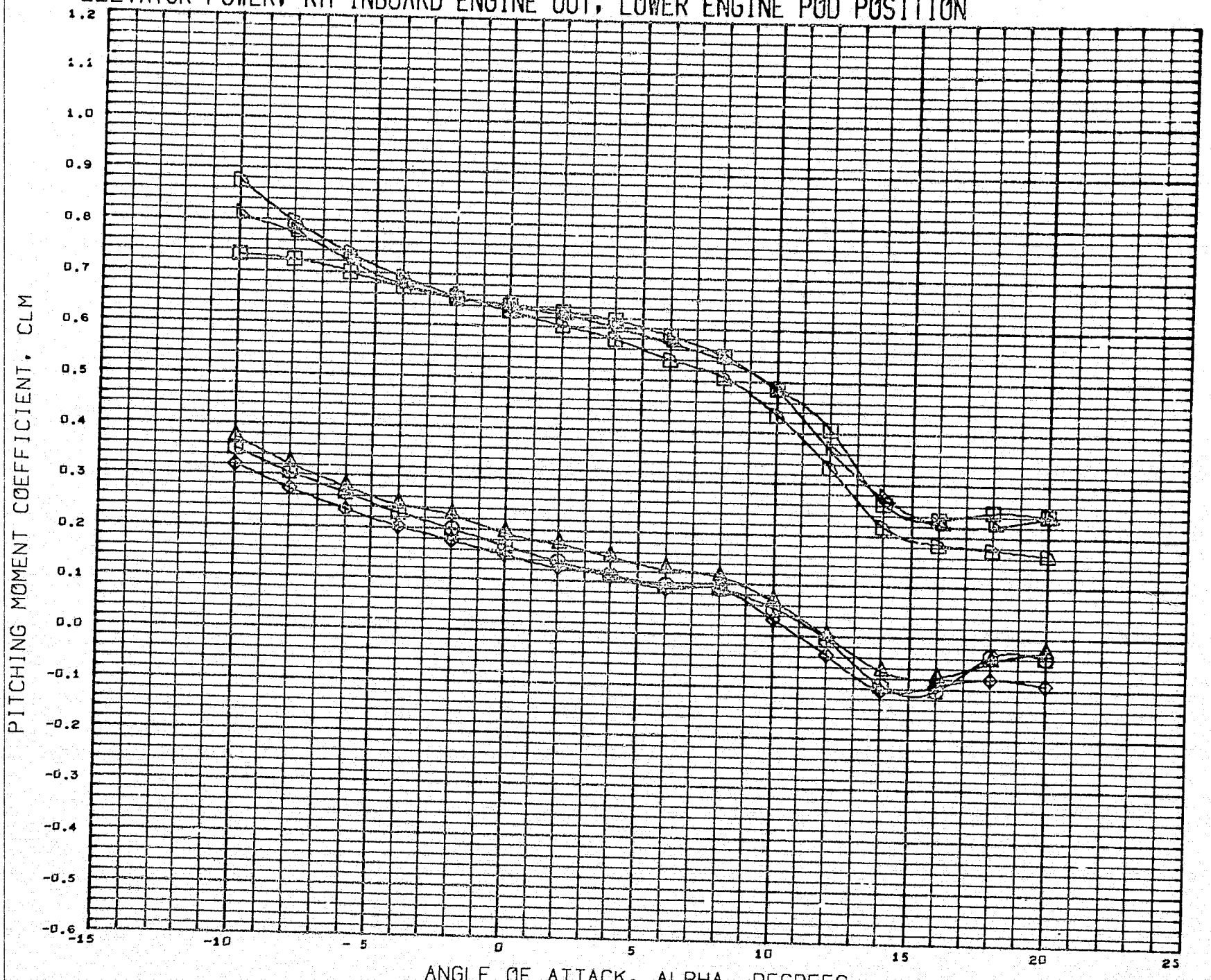
MACH 0.260

ELEVTR	FE/FO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB11)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB15)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB22)		4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB23)		4.0 FC 01 LSWT 237 B4W2V1H1P4

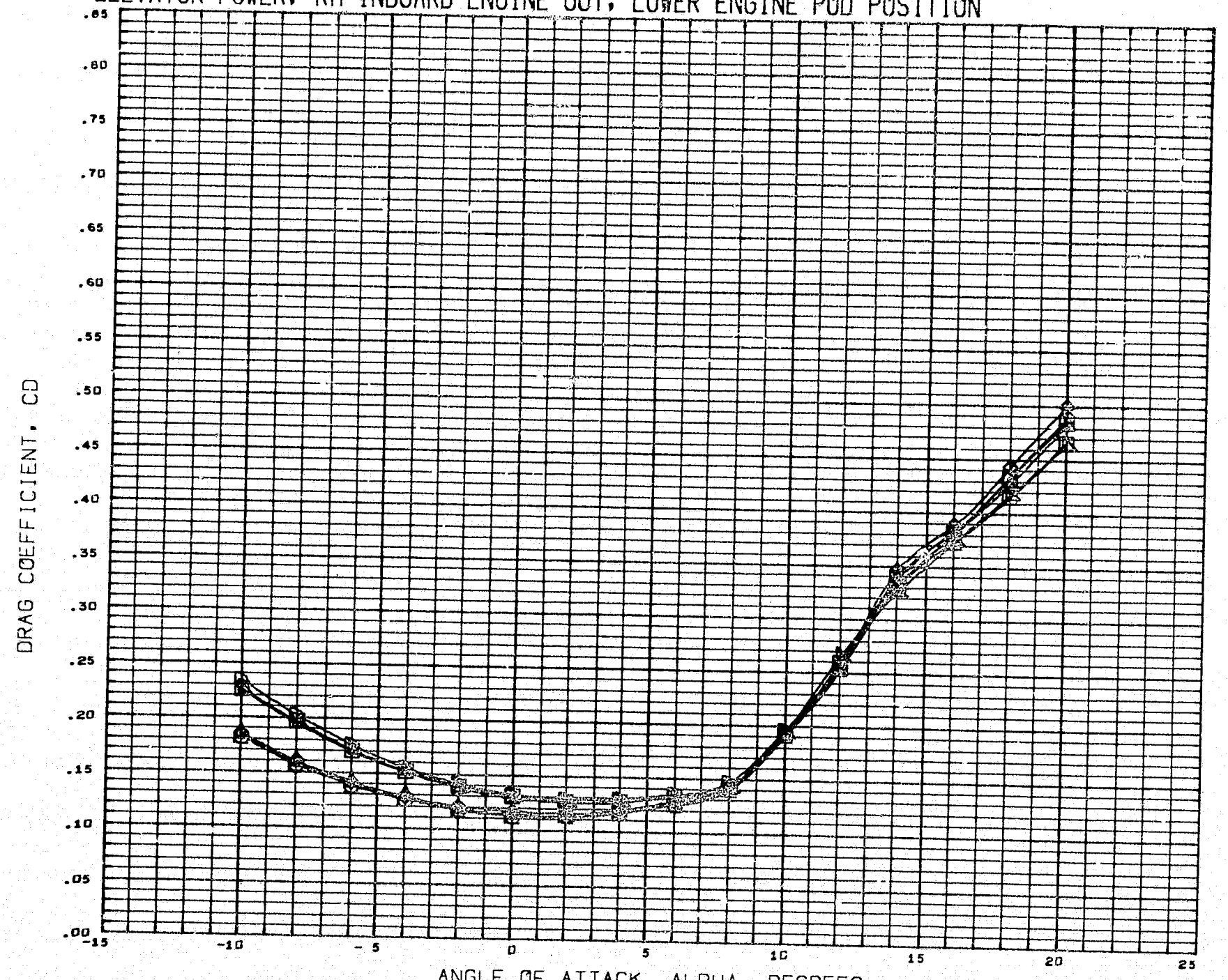
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB11)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB15)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB22)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB23)		4.0 PC 01 LSWT 237 B4W2V1H1P4

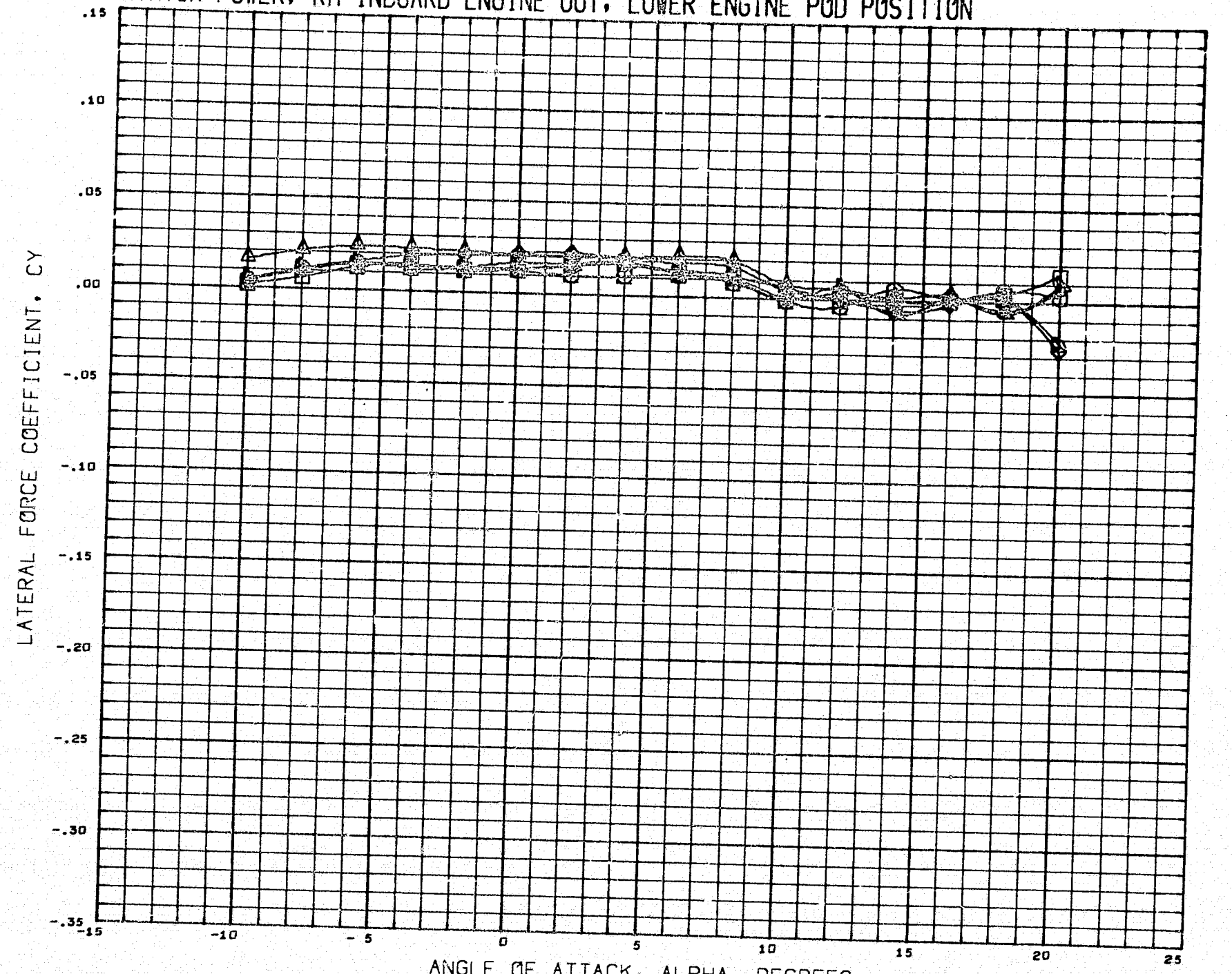
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB11)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB15)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB22)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB23)	4.0 PC 01 LSWT 237 B4W2V1H1P4

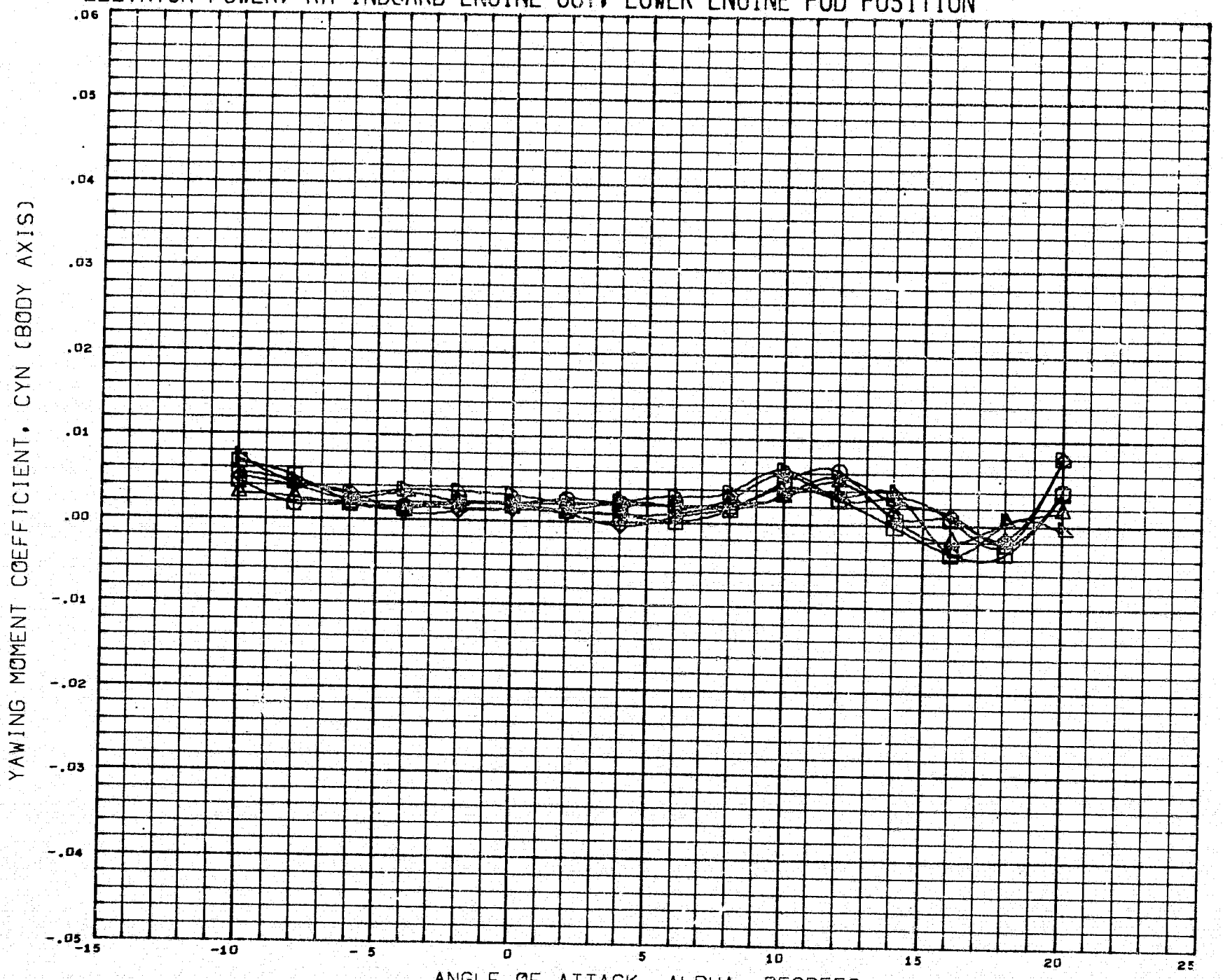
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



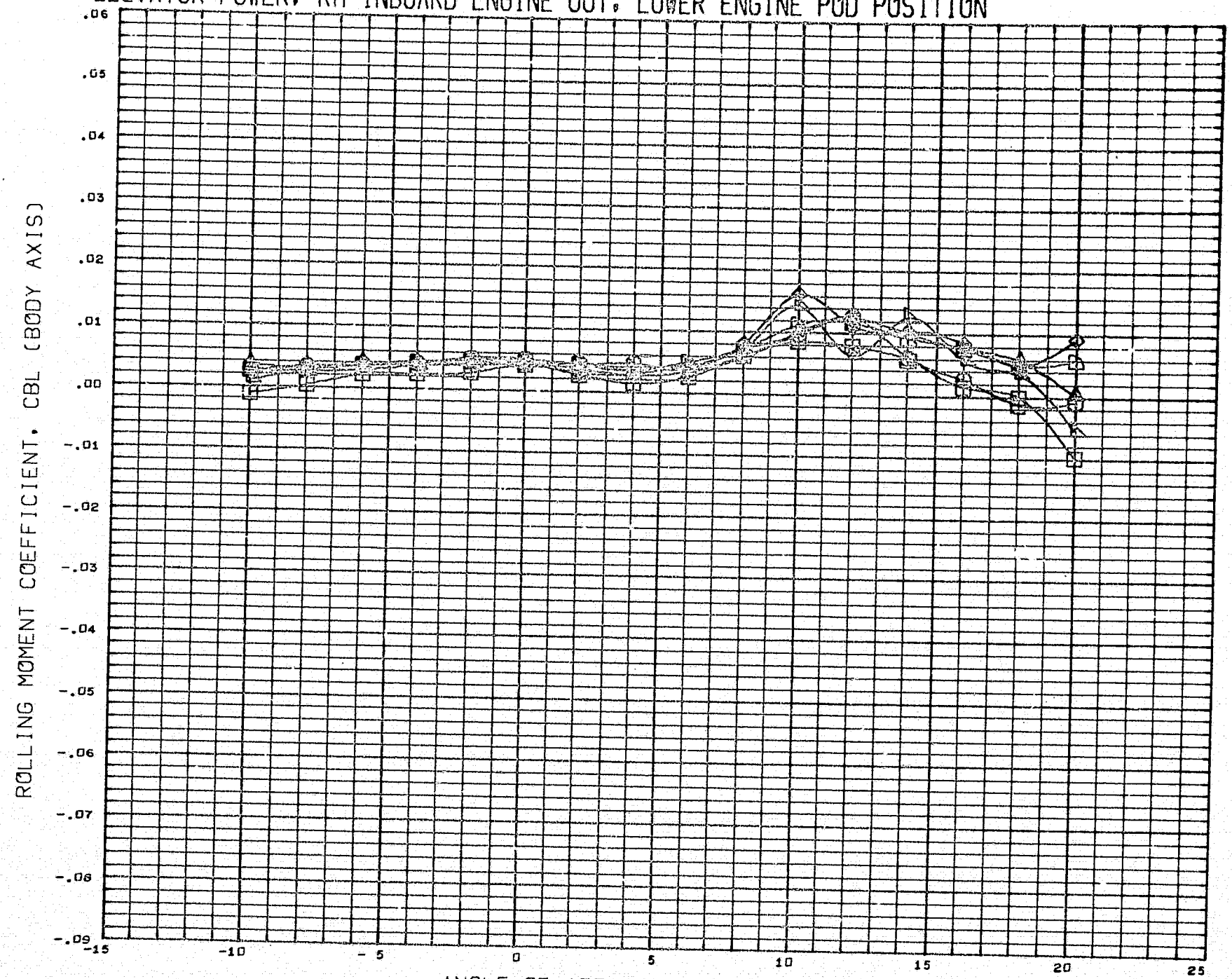
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)	○	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB11)	△	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB15)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB17)	□	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB22)	▽	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB23)	▷	4.0 FC 01 LSWT 237 B4W2V1H1F4

MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9406	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB01)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB11)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB15)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB17)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB22)		4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB23)		4.0 PC 01 LSWT 237 B4W2V1H1P4

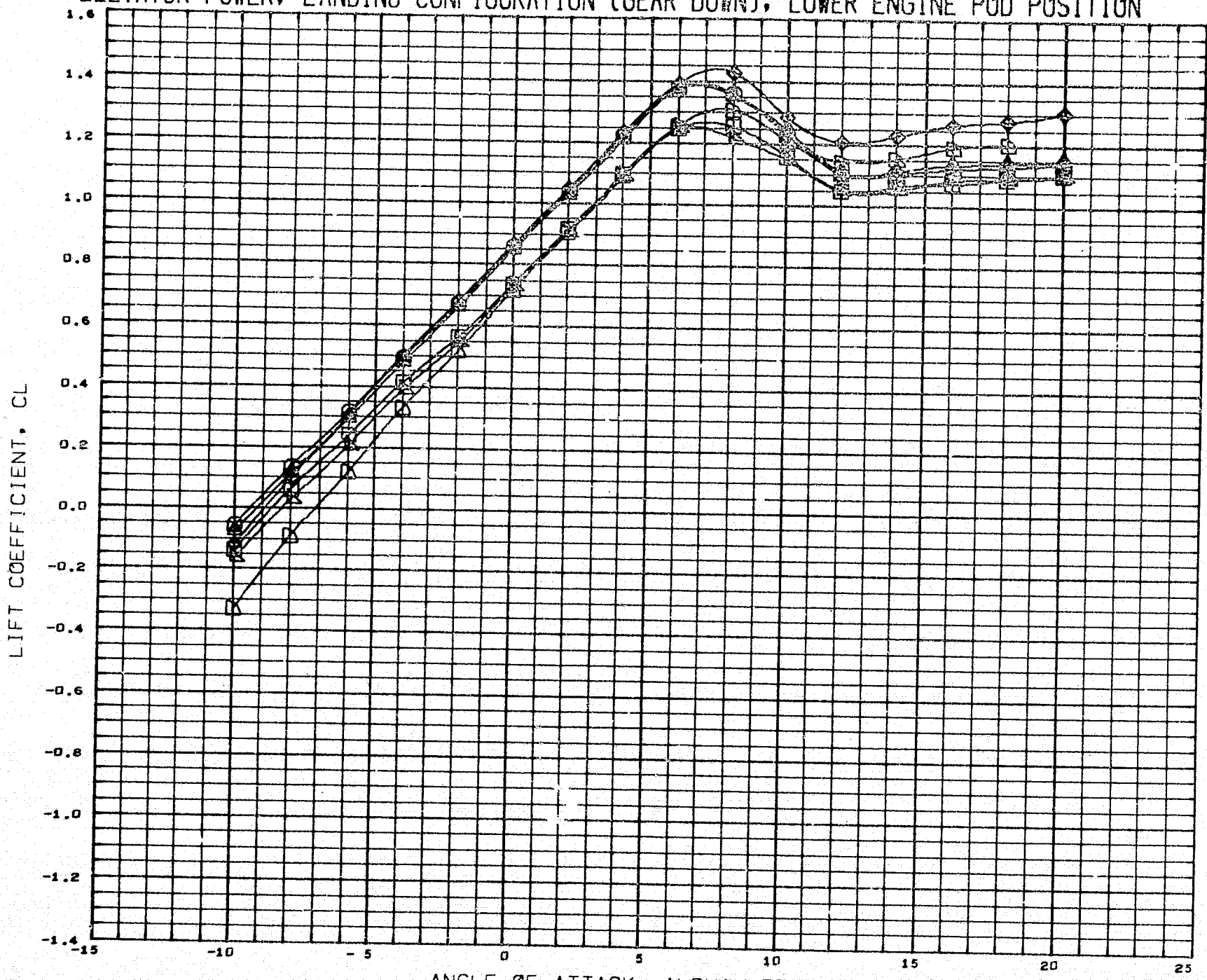
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	1.100	0.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	FCT.

ELEVATOR POWER, LANDING CONFIGURATION (GEAR DOWN), LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB28)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB29)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB30)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB31)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB32)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB33)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G

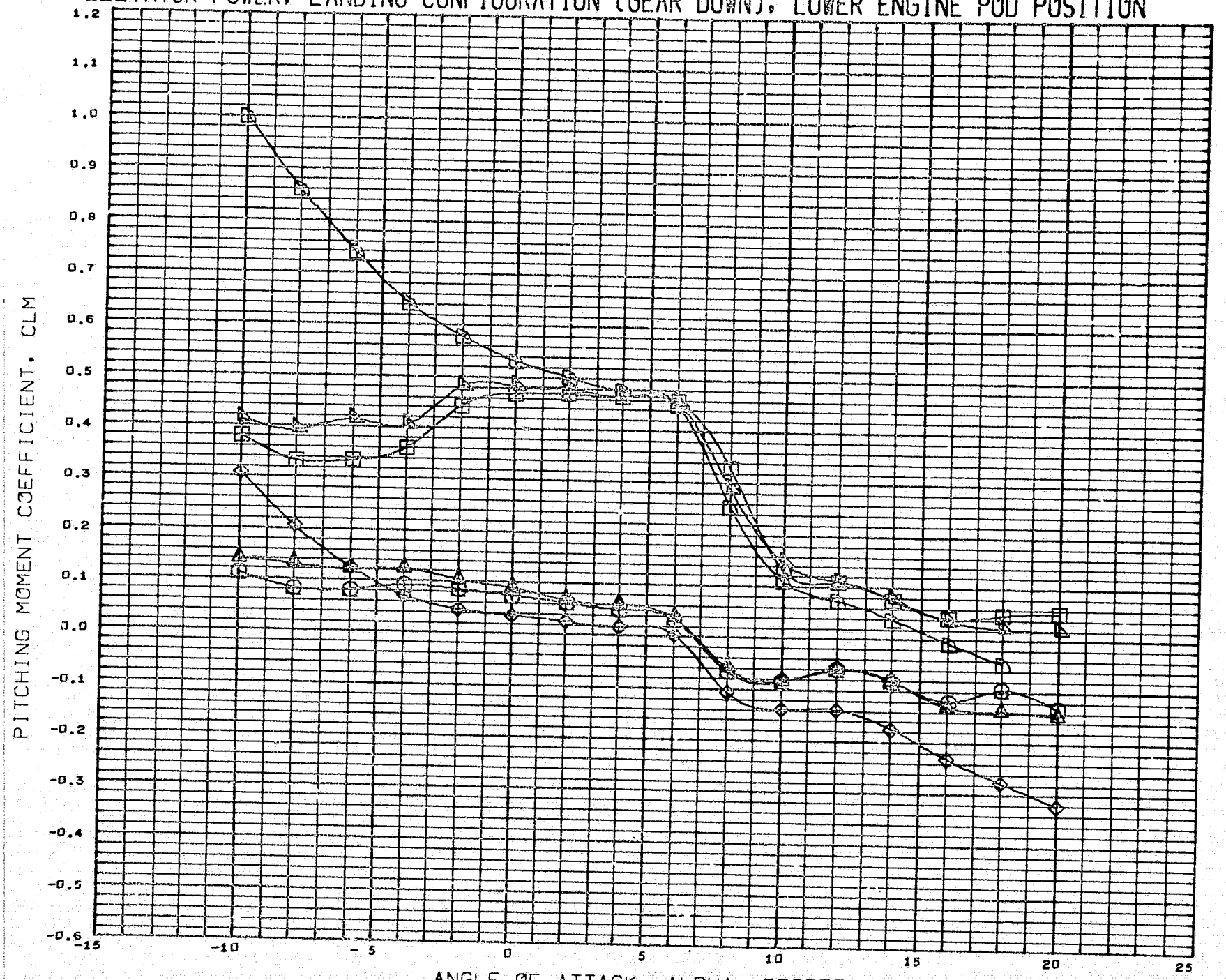
MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	1.100	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	1.100	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LANDING CONFIGURATION (GEAR DOWN), LOWER ENGINE POD POSITION



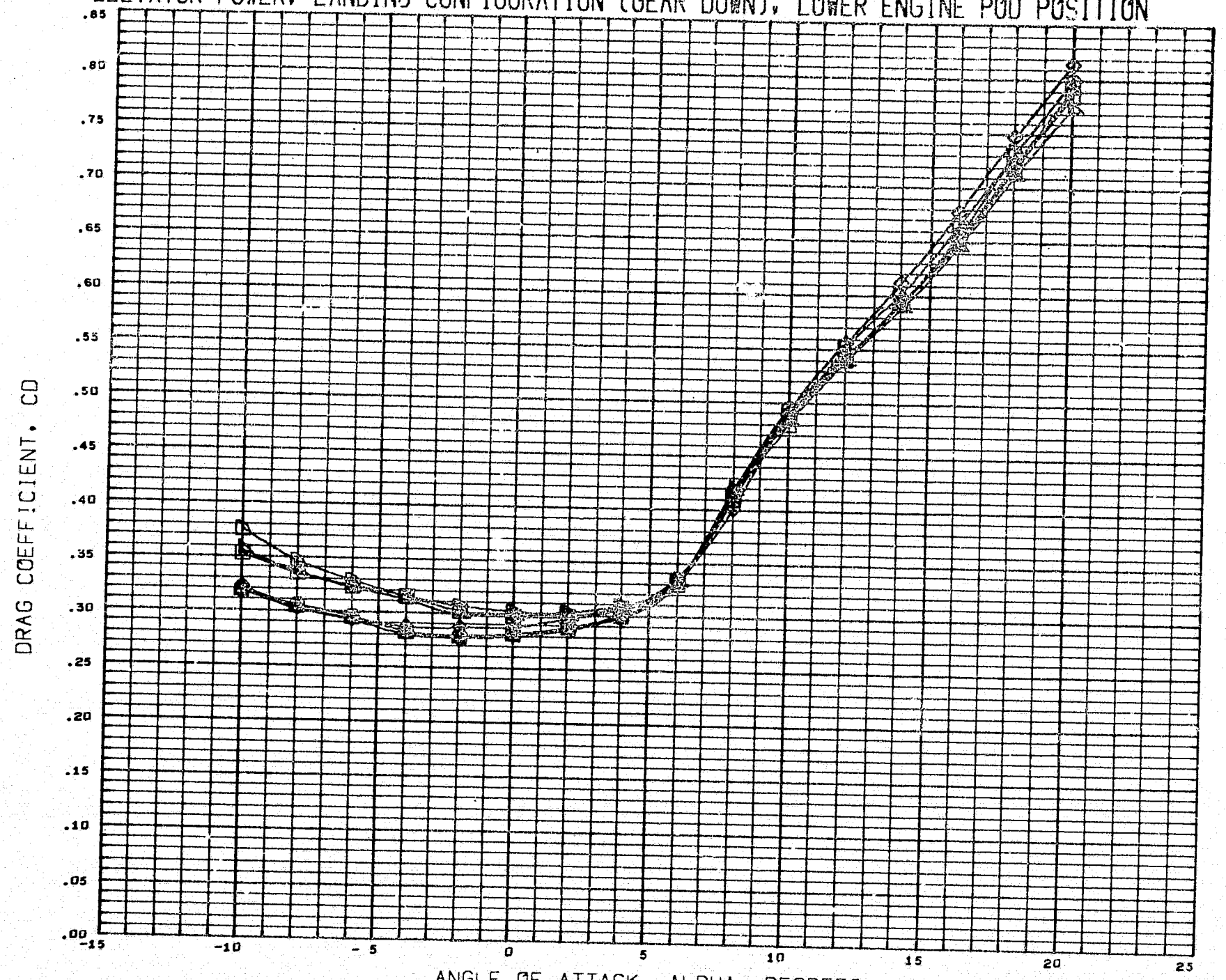
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB28)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB29)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB30)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB31)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB32)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB33)		4.0 PC 01 LSWT 237 B4W2V1H1P4F2G

MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	1.100	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	1.100	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LANDING CONFIGURATION (GEAR DOWN), LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB28)	○	4.0 PC 01 LSWT 237 64W2V1H1P4F2G
(CCDB29)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB30)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB31)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB32)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB33)	▷	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G

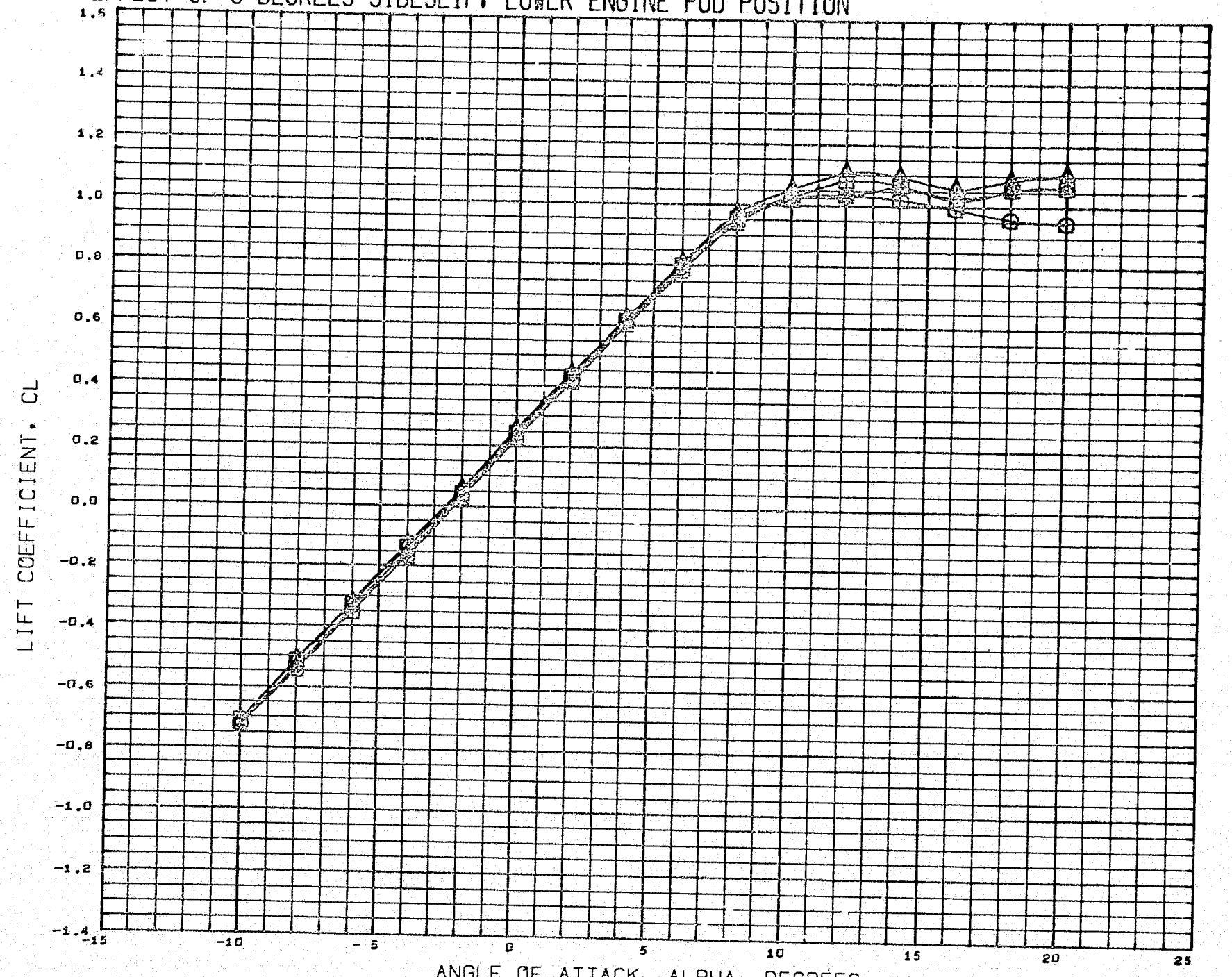
MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	1.100	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	1.100	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 FC 01 LSWT 237 B4W2V1H1P4

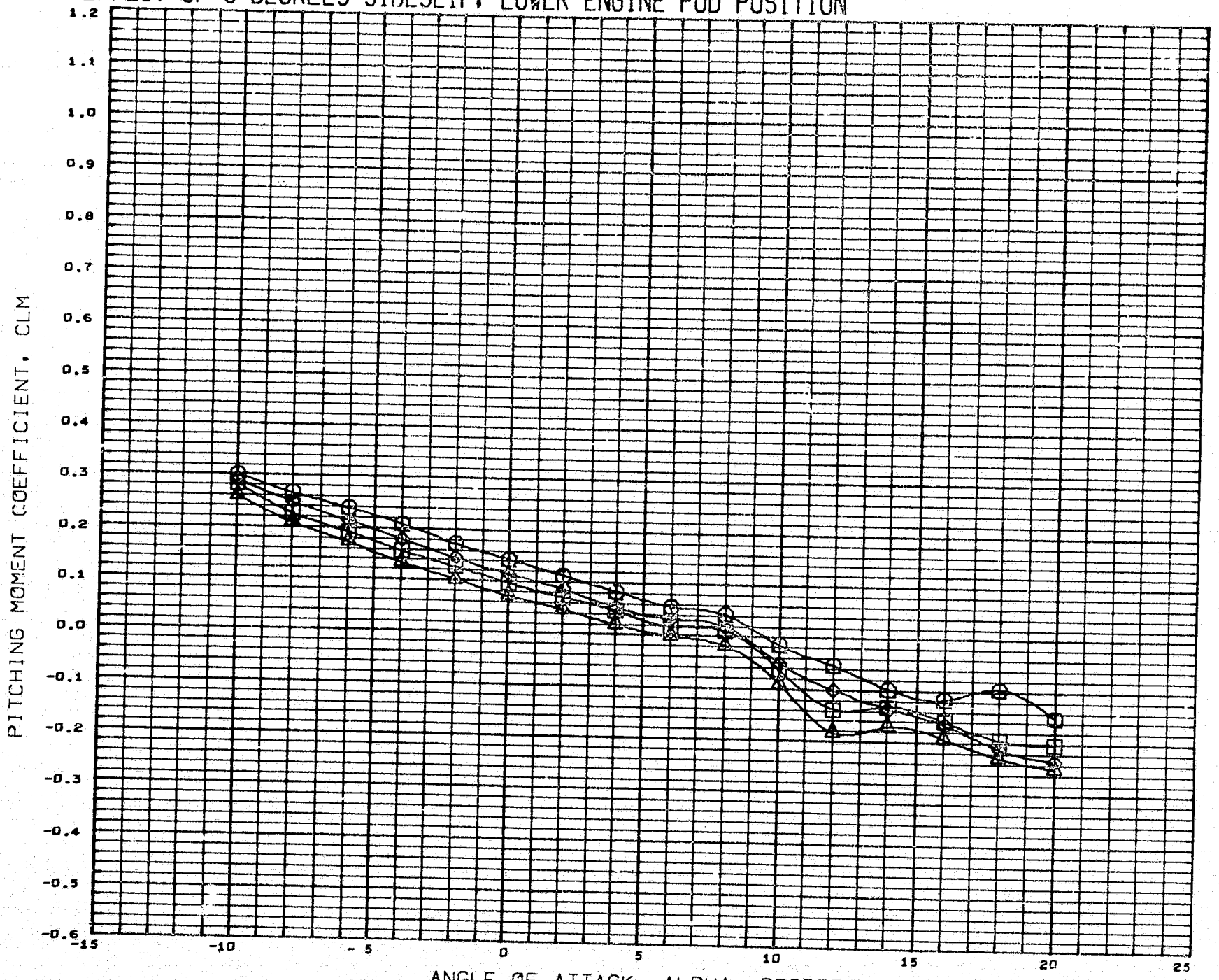
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4

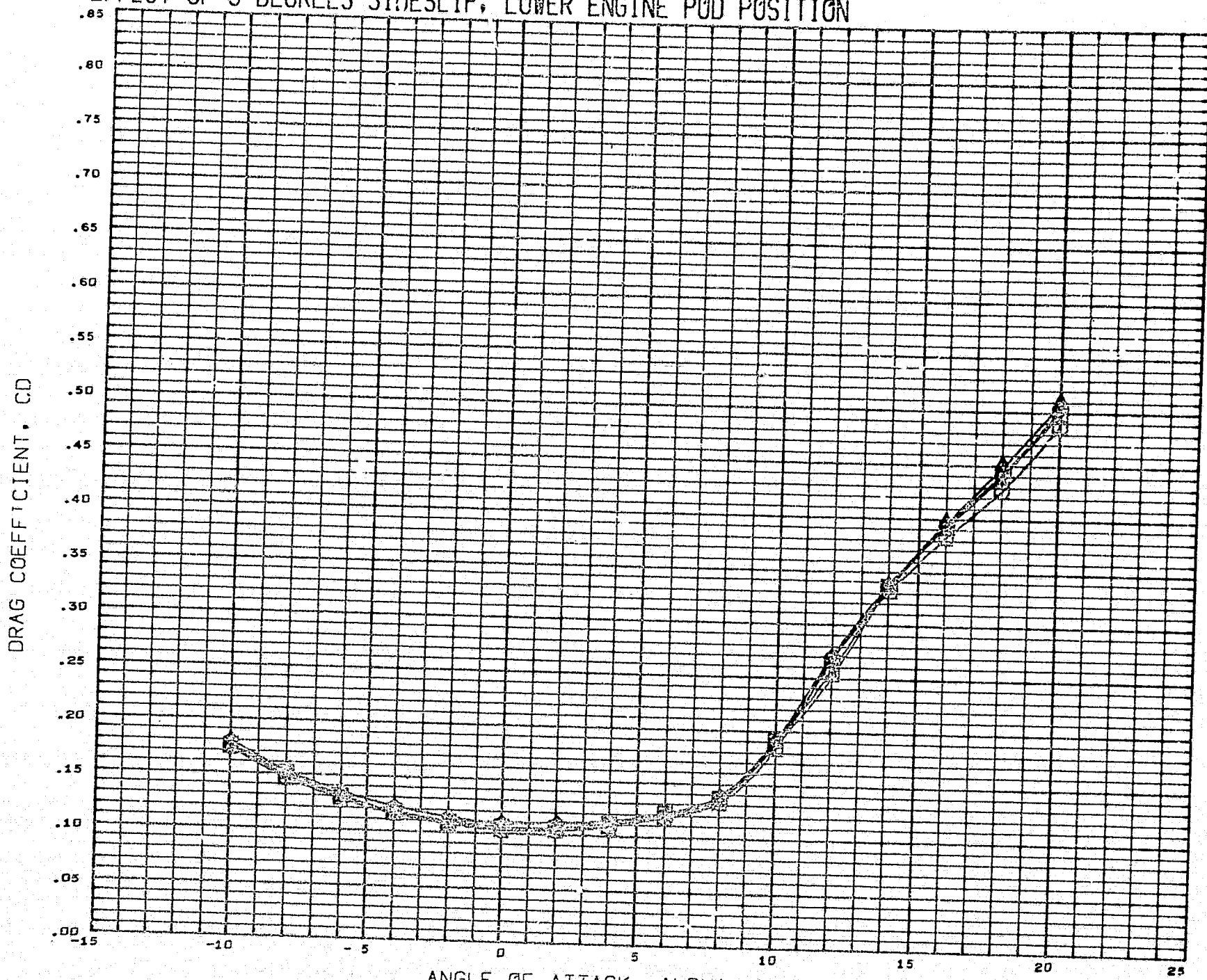
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4

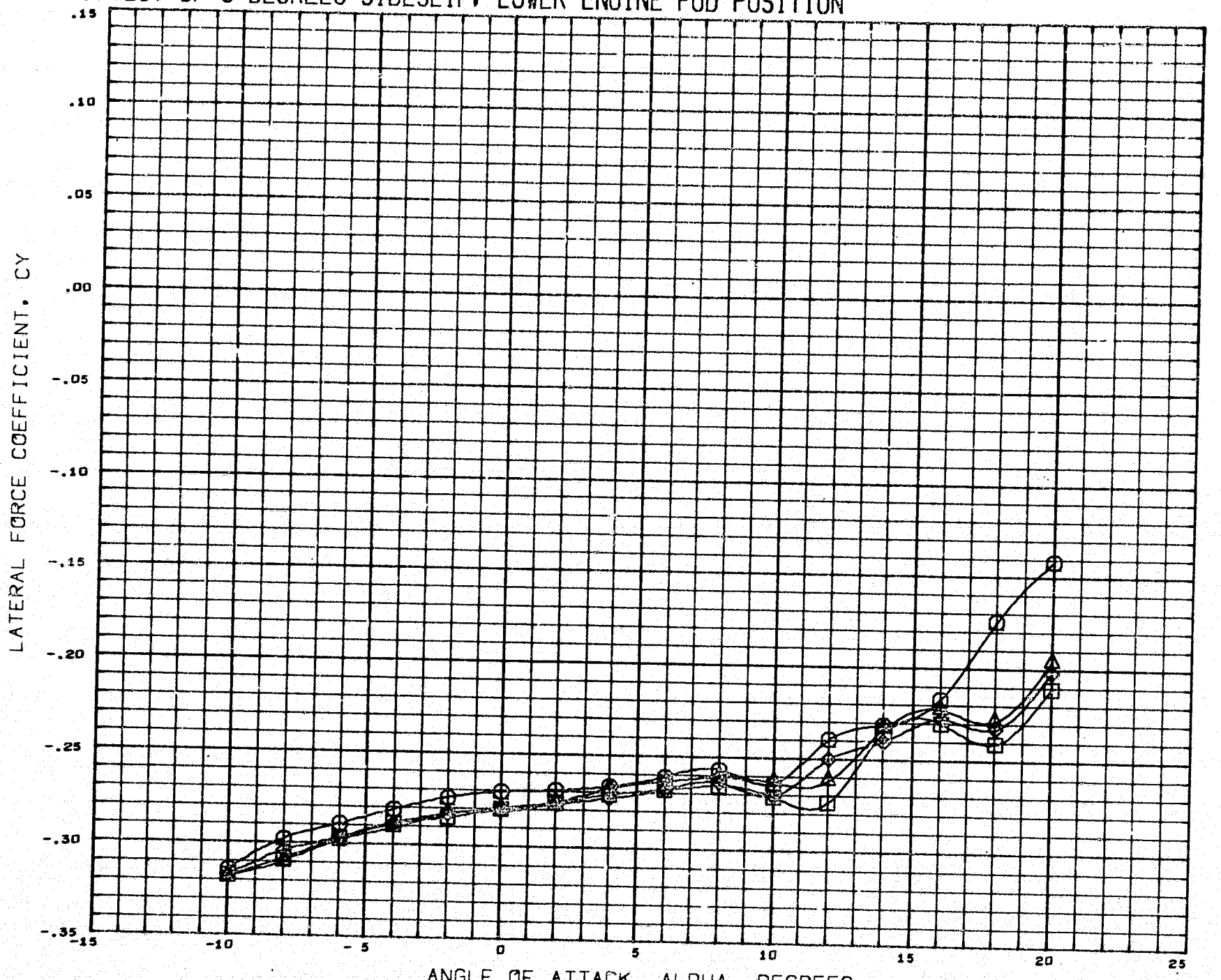
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4

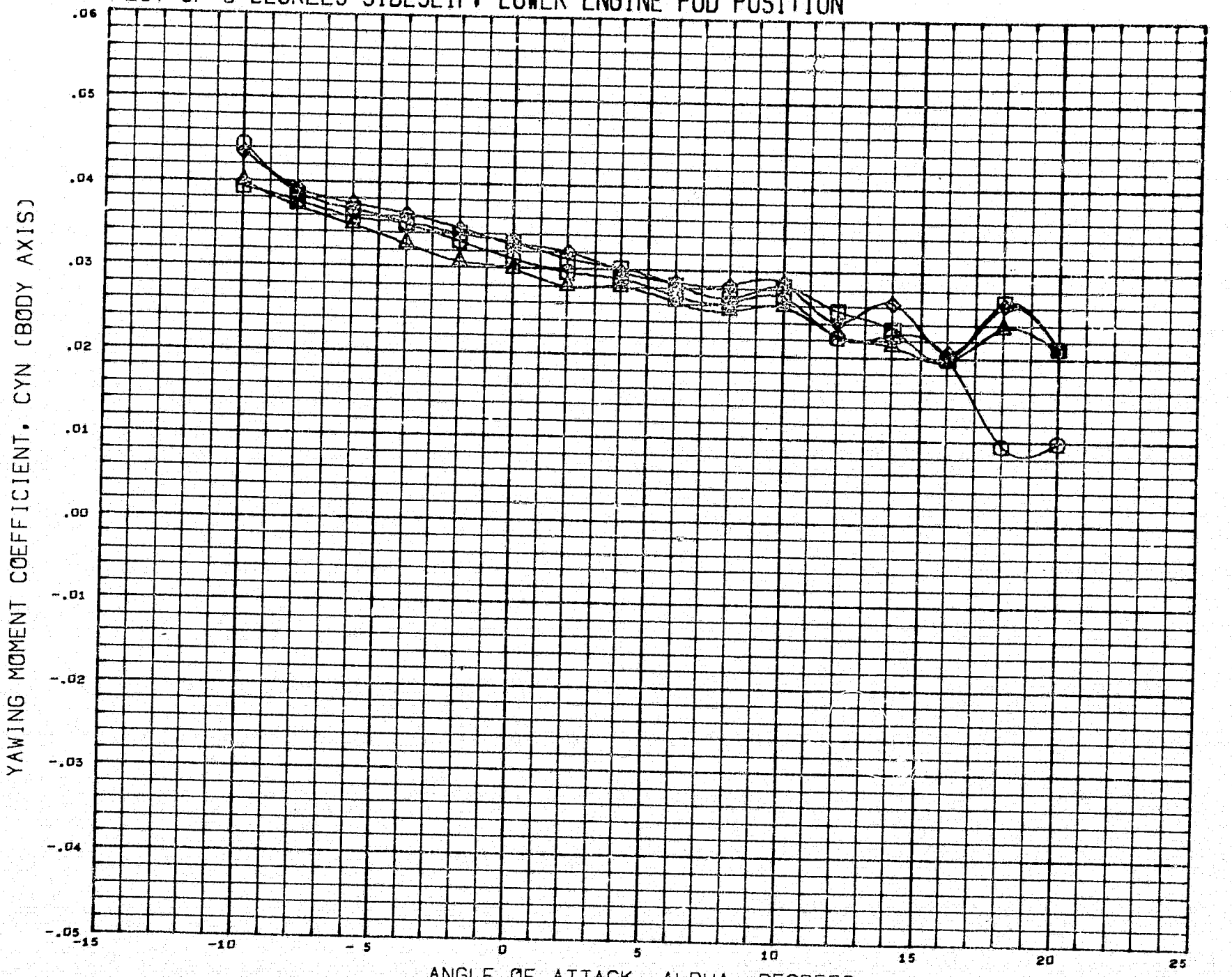
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 PC 01 LSWT 237 B4W2V1H1P4

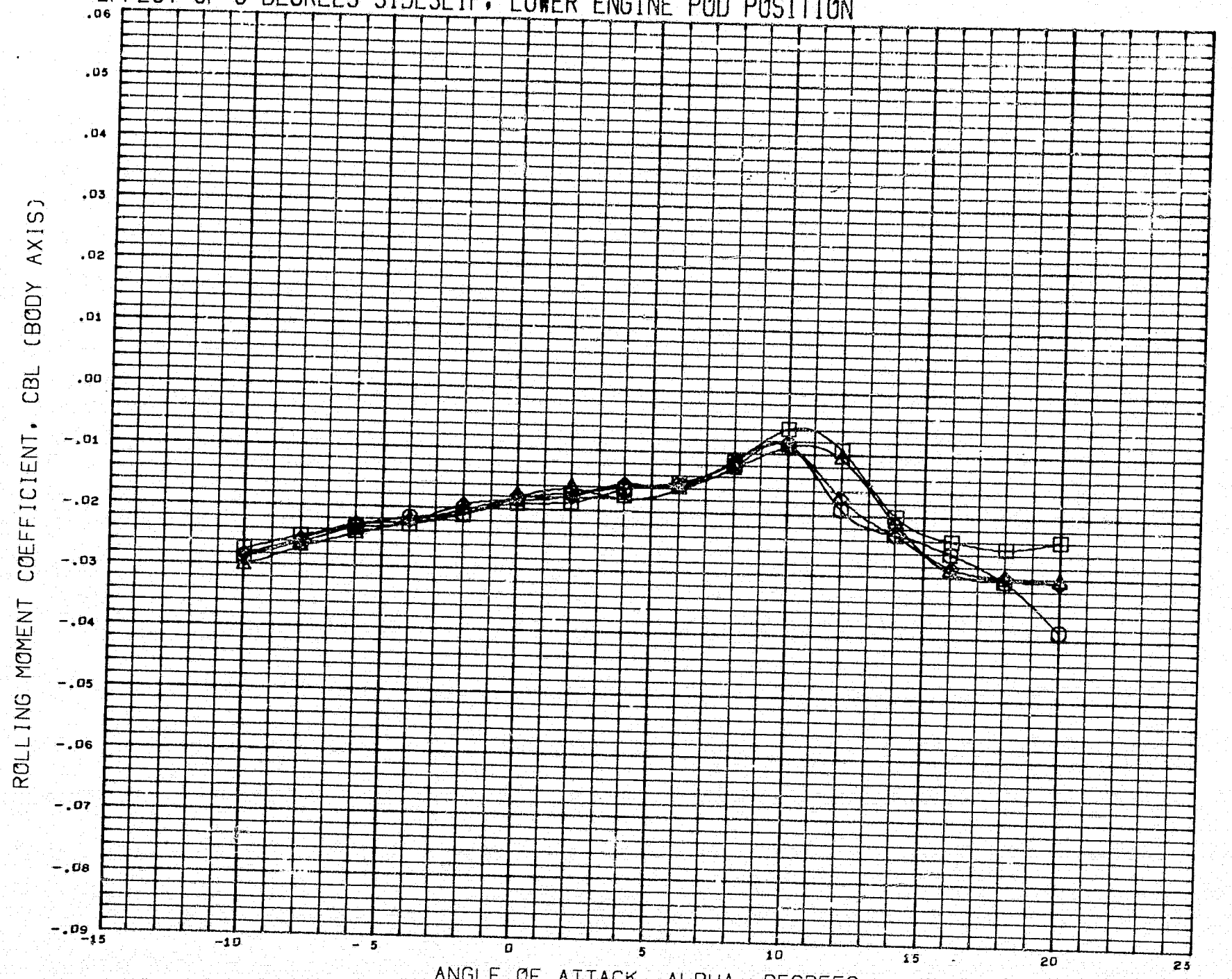
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION



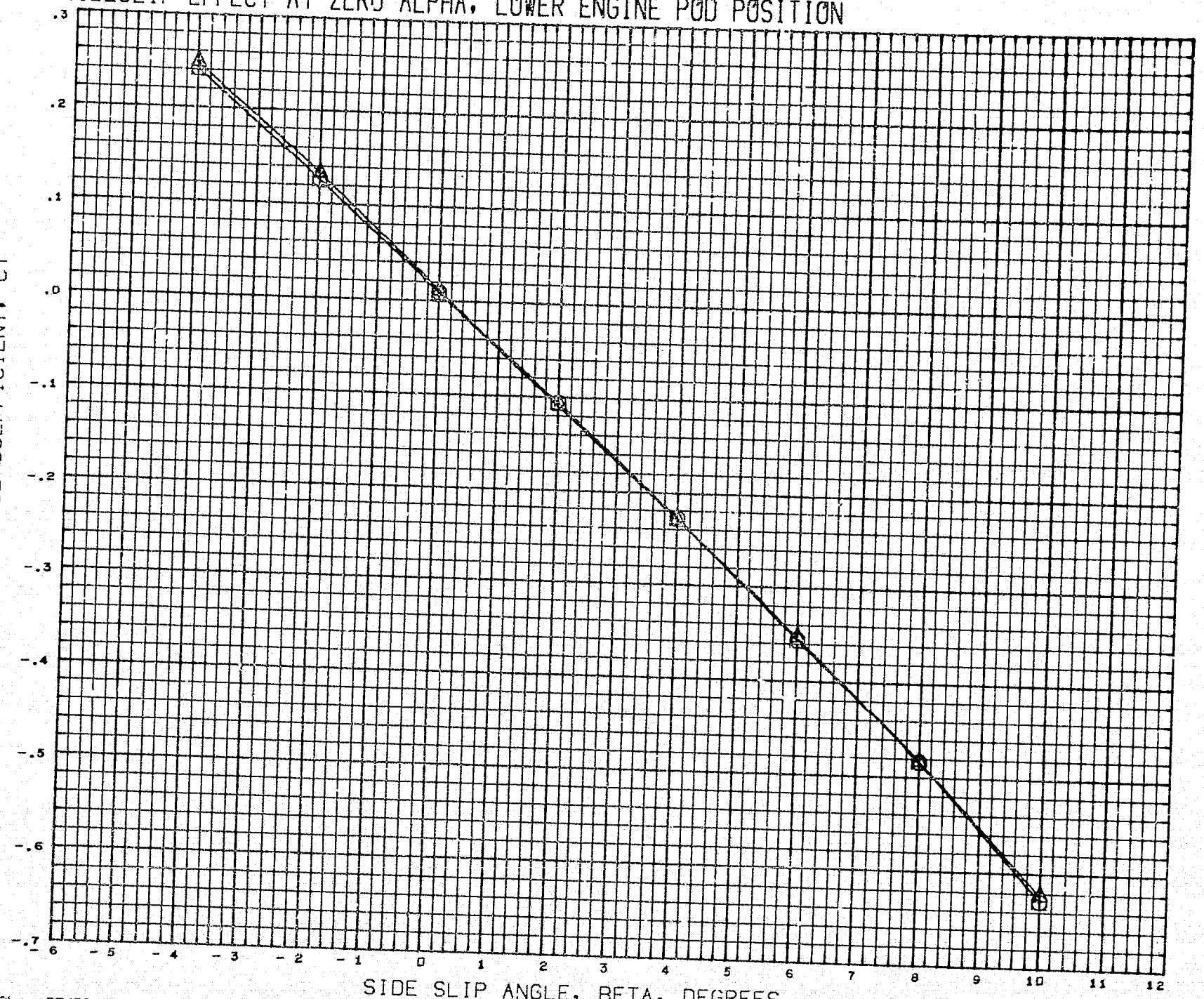
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB05)	△	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB14)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P4
(CCDB16)	□	4.0 FC 01 LSWT 237 B4W2V1H1P4

MACH 0.260

RHOB	RHIB	FE/FO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3809	IN.
XMRF	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000	DATASET	CCDB07
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

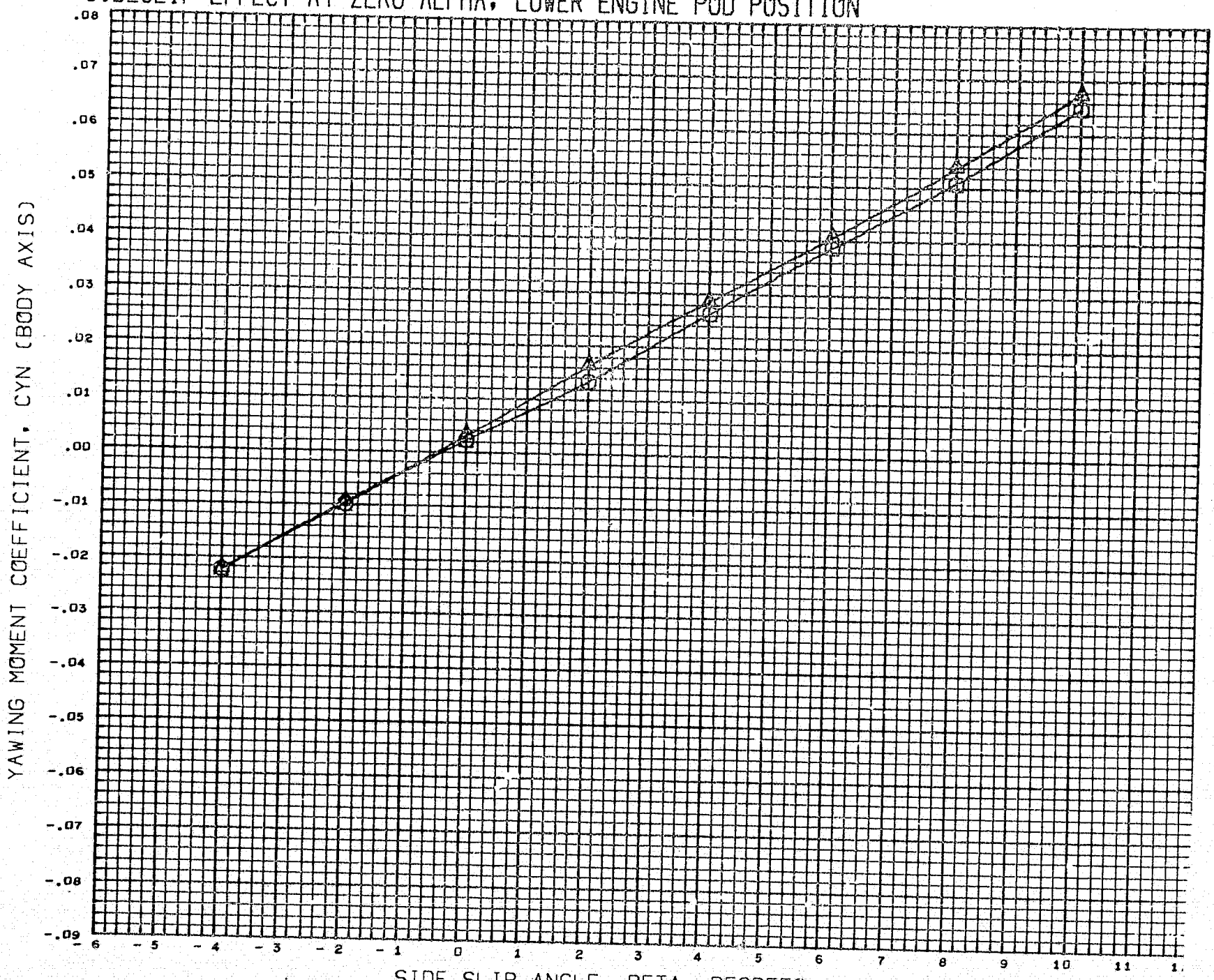
DATASET	PE/PO	DATASET	PE/PO
CCDB07	0.990	CCDB08	3.400

DATA HIST. CODE *E

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000
HTAIL	- 5.000	ELEVTR	0.000
FLAP	0.000	RHOB	1.000
RHIB	1.000		

DATA SOURCE

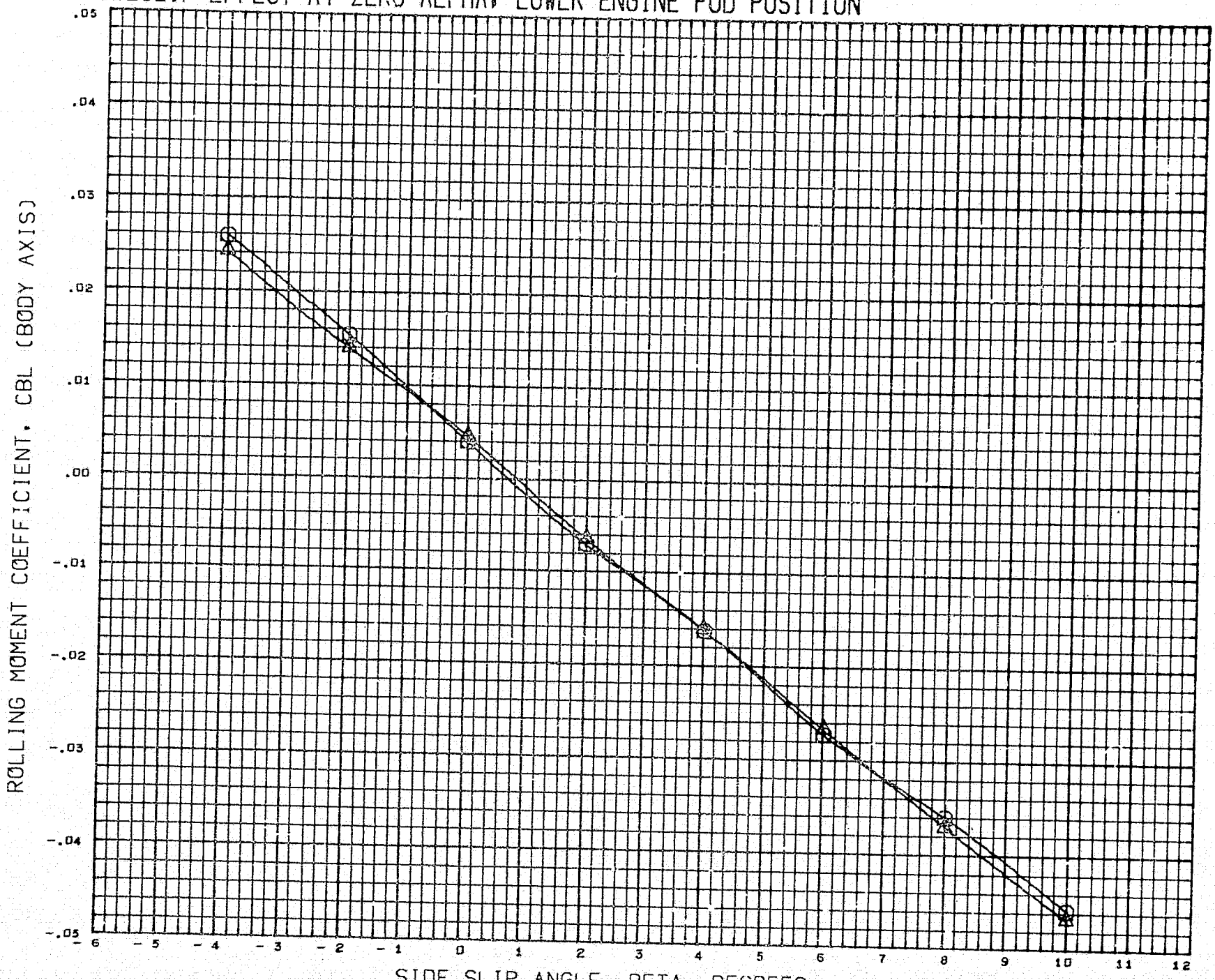
DATASET	PE/PO	DATASET	PE/PO
CCDB07	0.990	CCDB08	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
◇	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000	DATASET	PE/PO
HTAIL	- 5.000	ELEVTR	0.000	CCDB07	0.990
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

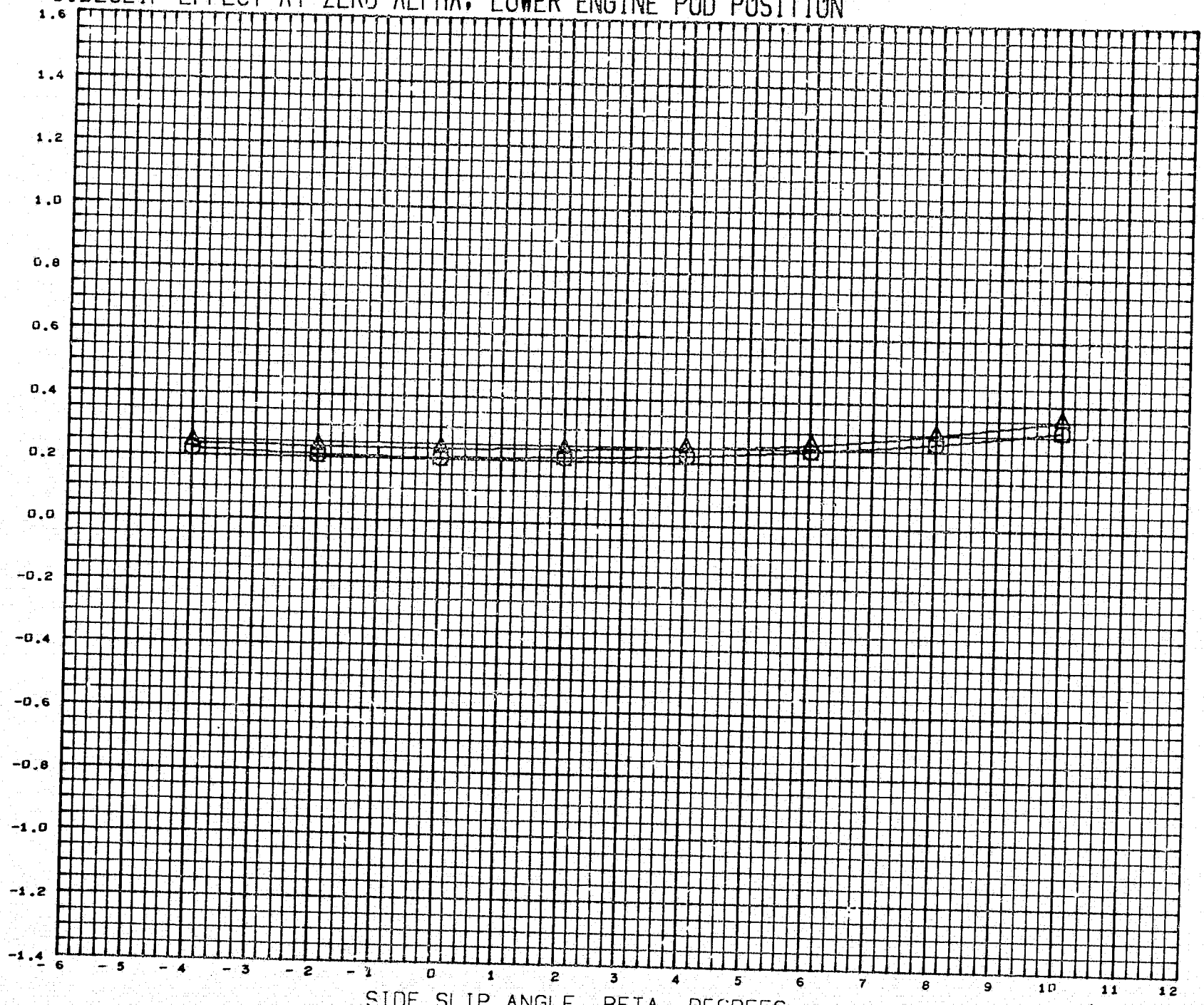
DATASET	PE/PO
CCDB08	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE #E

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	FE/FO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

DATASET	FE/FO	DATASET	FE/FO
CCDB07	0.990	CCDB08	3.400

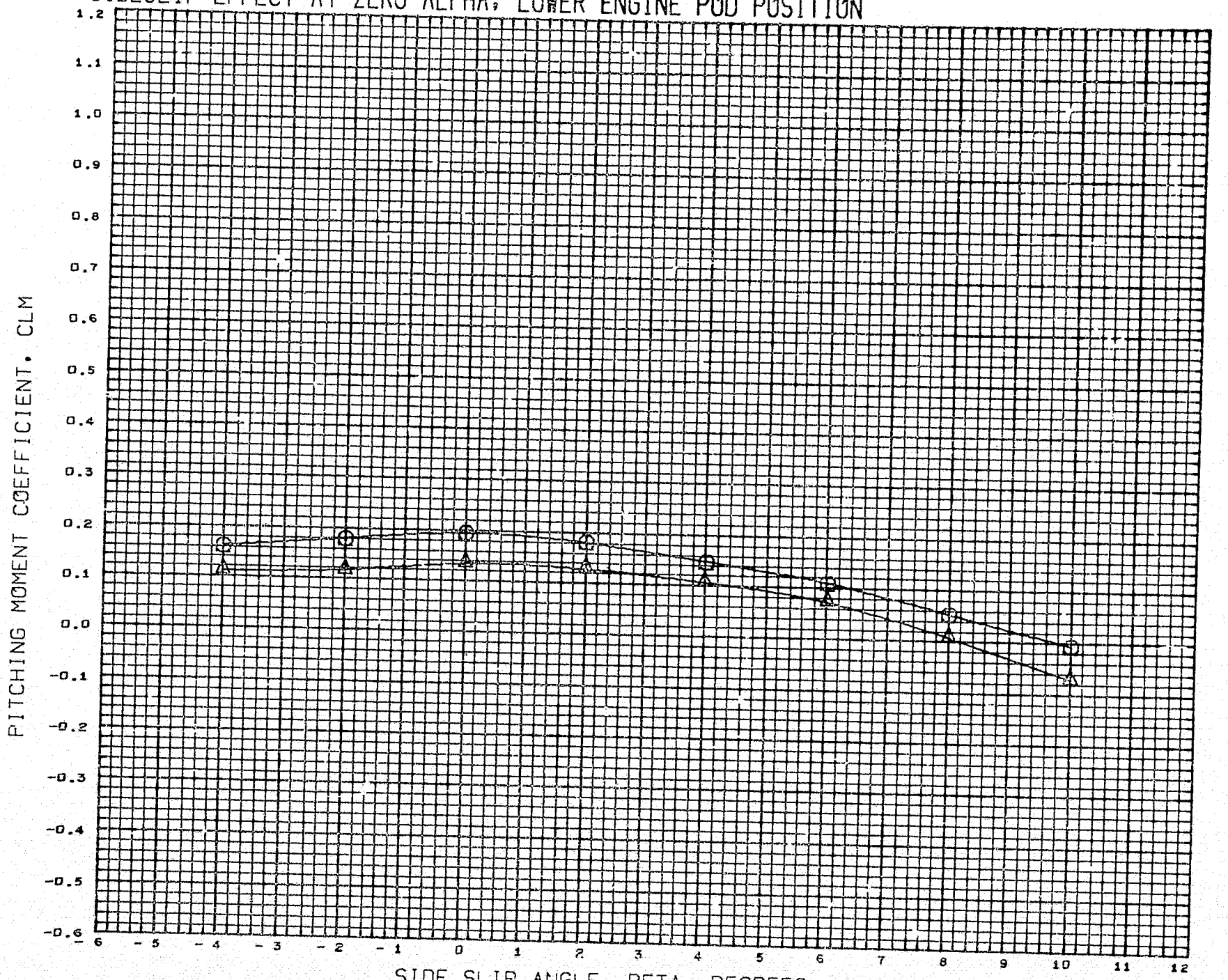
REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

4.0 PC 01 LSWT 237 B4W2V1H1P4 (CCDB07) 11 MAY 71 PAGE 304

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
◇	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000	DATASET	PE/PO
HTAIL	- 5.000	ELEVTR	0.000	CCDB07	0.990
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

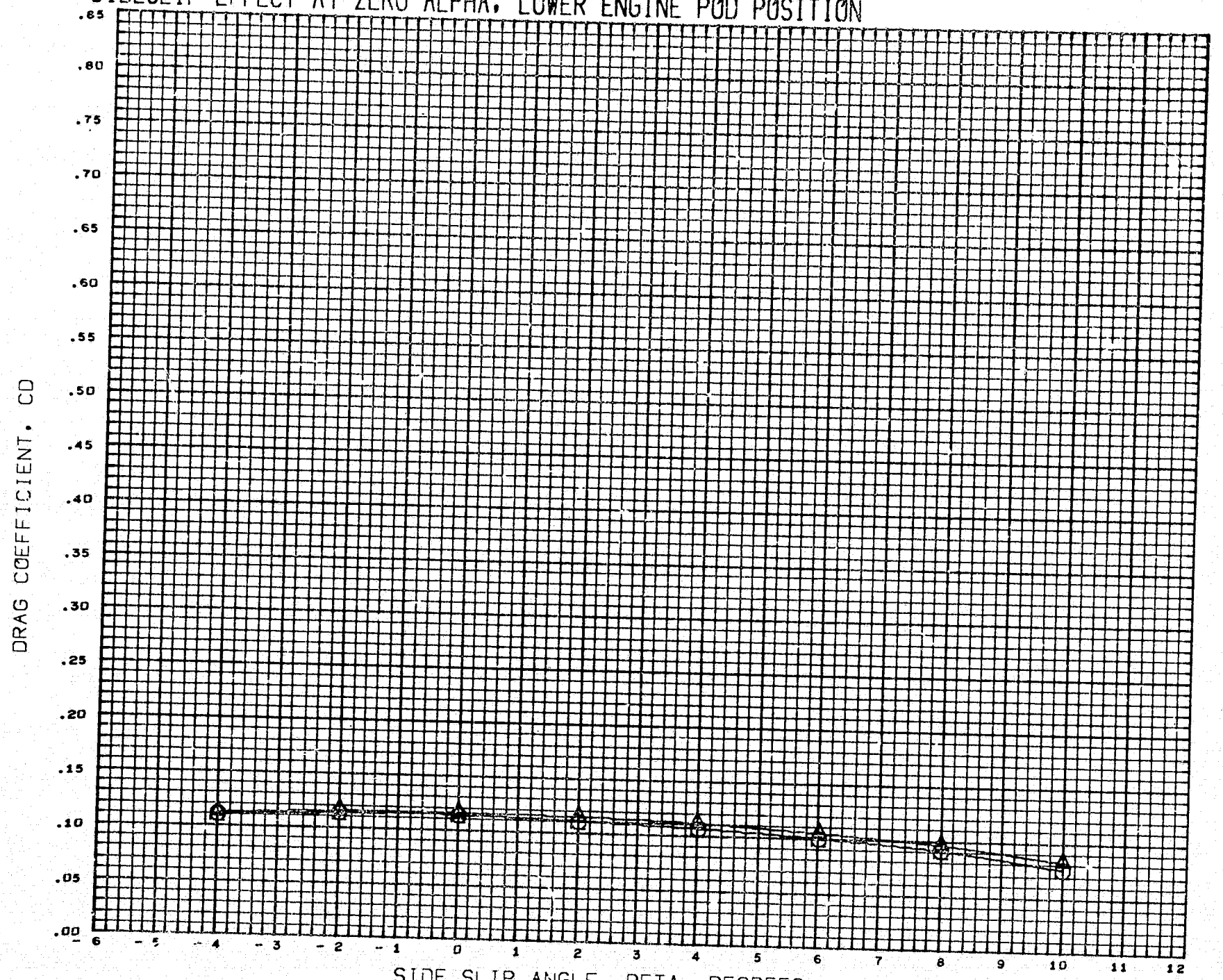
DATASET	PE/PO
CCDB08	3.400

DATA HIST. CODE =E

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	0.000	DATASET	CCDB07
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA HIST. CODE *E

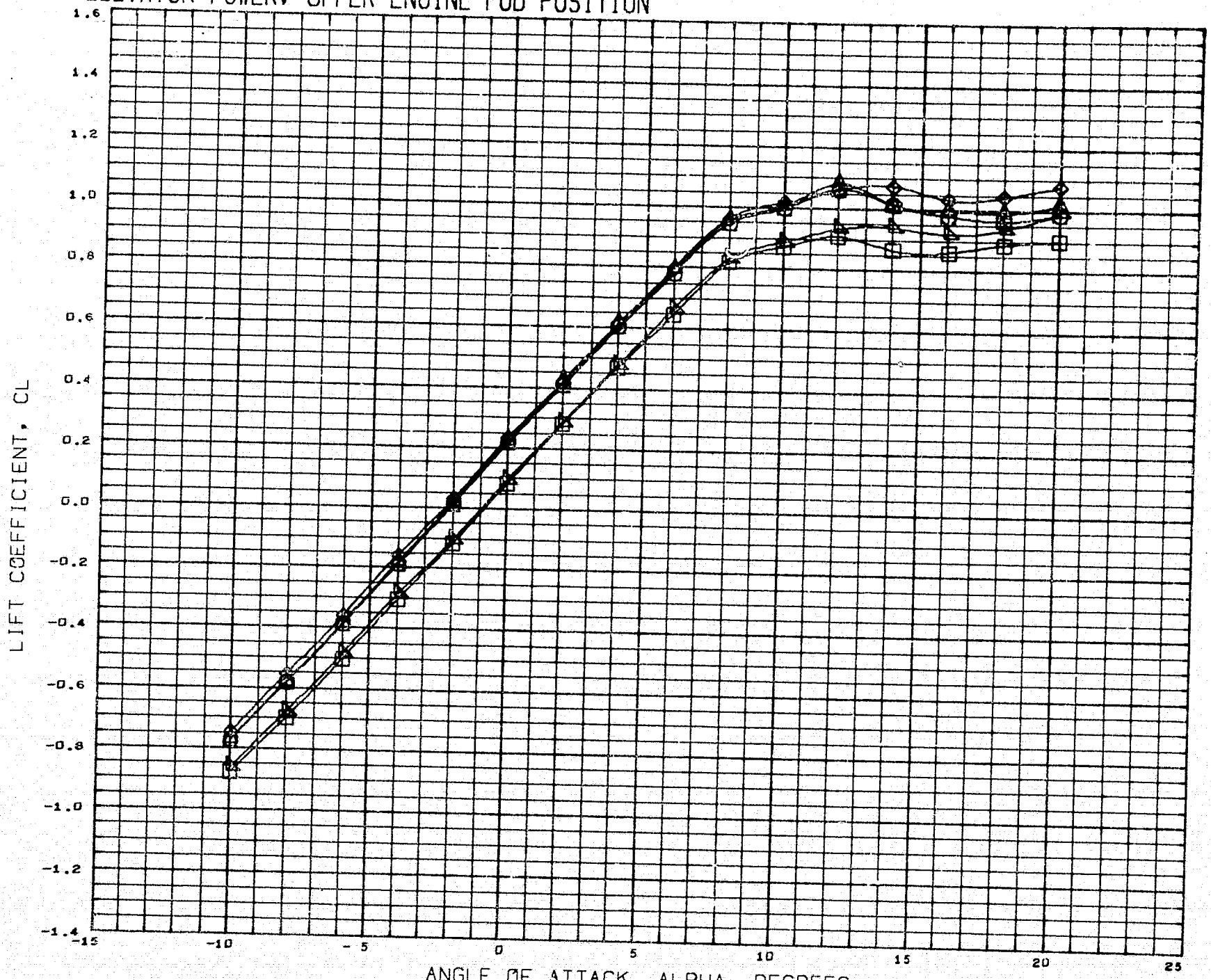
DATA SOURCE

PE/PO	DATASET	PE/PO
0.990	CCDB08	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRF	37.9400	IN
YMRP	0.0000	IN.
ZMRF	12.0000	IN.
SCALE	4.0000	FCT.

ELEVATOR POWER, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB45)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB46)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB58)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2

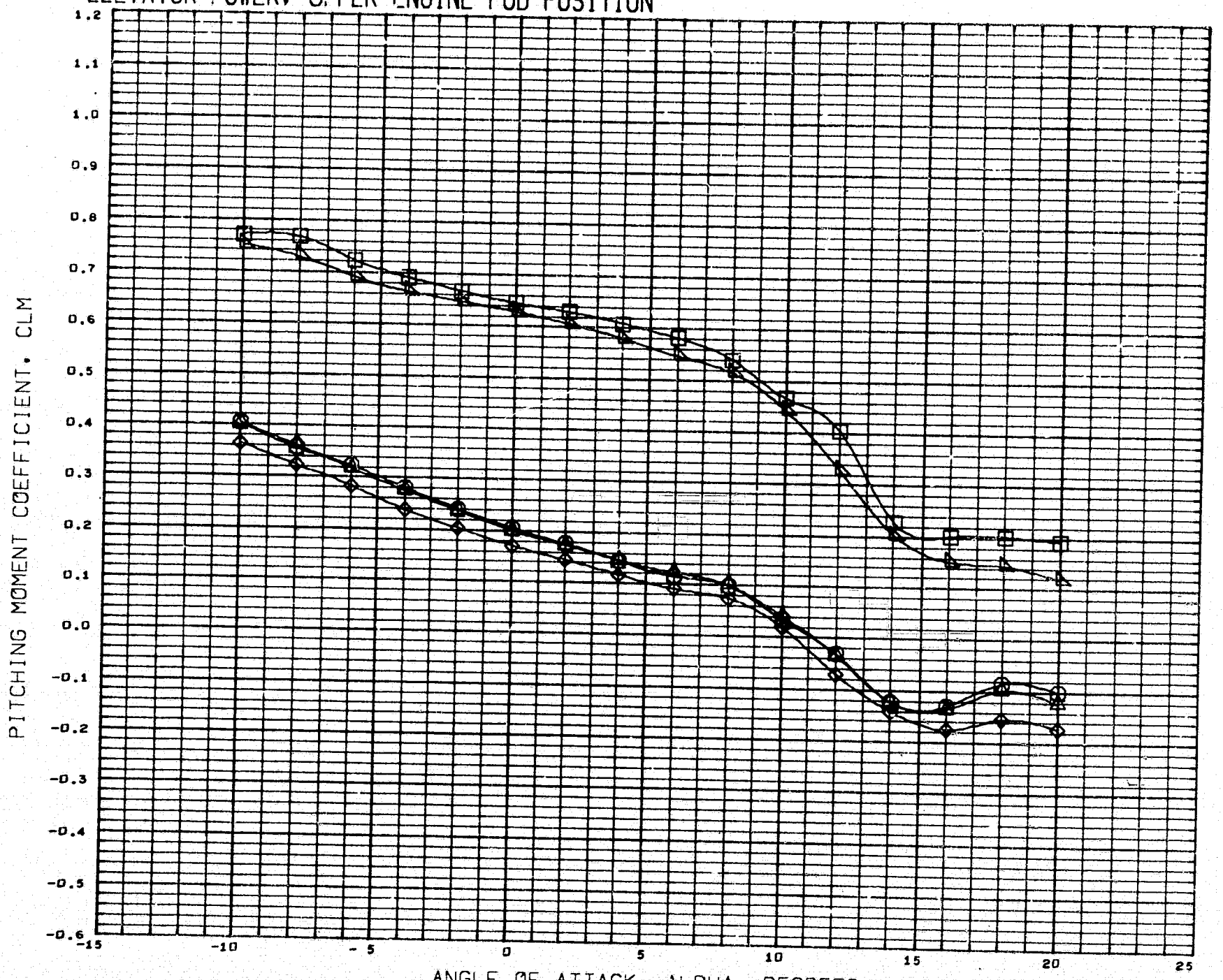
MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9405	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, UPPER ENGINE POD POSITION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB45)	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB46)	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB57)	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB58)	4.0 PC 01 LSWT 237 B4W2V1H1F2

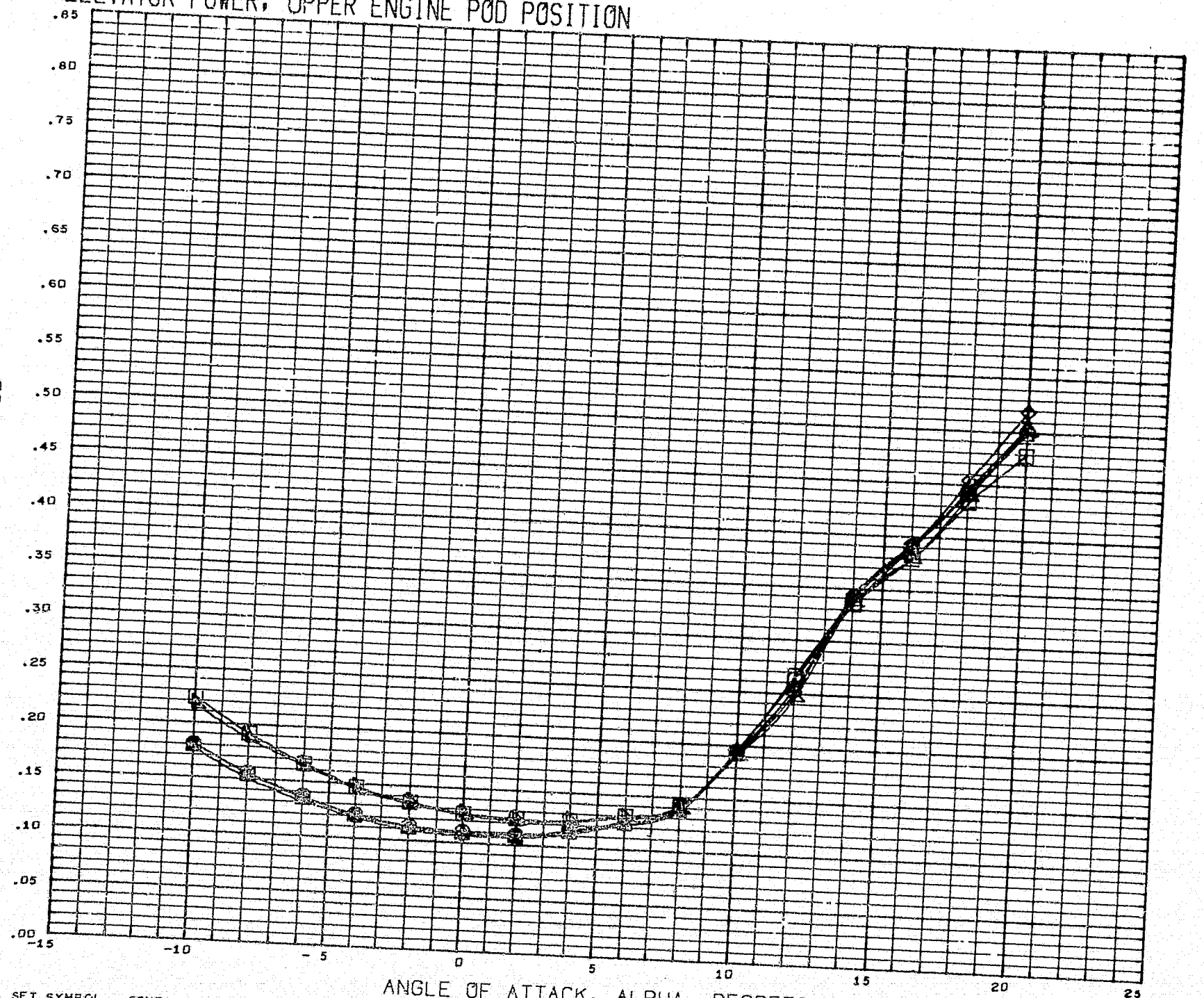
MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB45)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB46)	◇	4.0 PC 01 LSWT 237 B4U2V1H1F2
(CCDB57)	△	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB58)	▽	4.0 PC 01 LSWT 237 B4W2V1H1F2

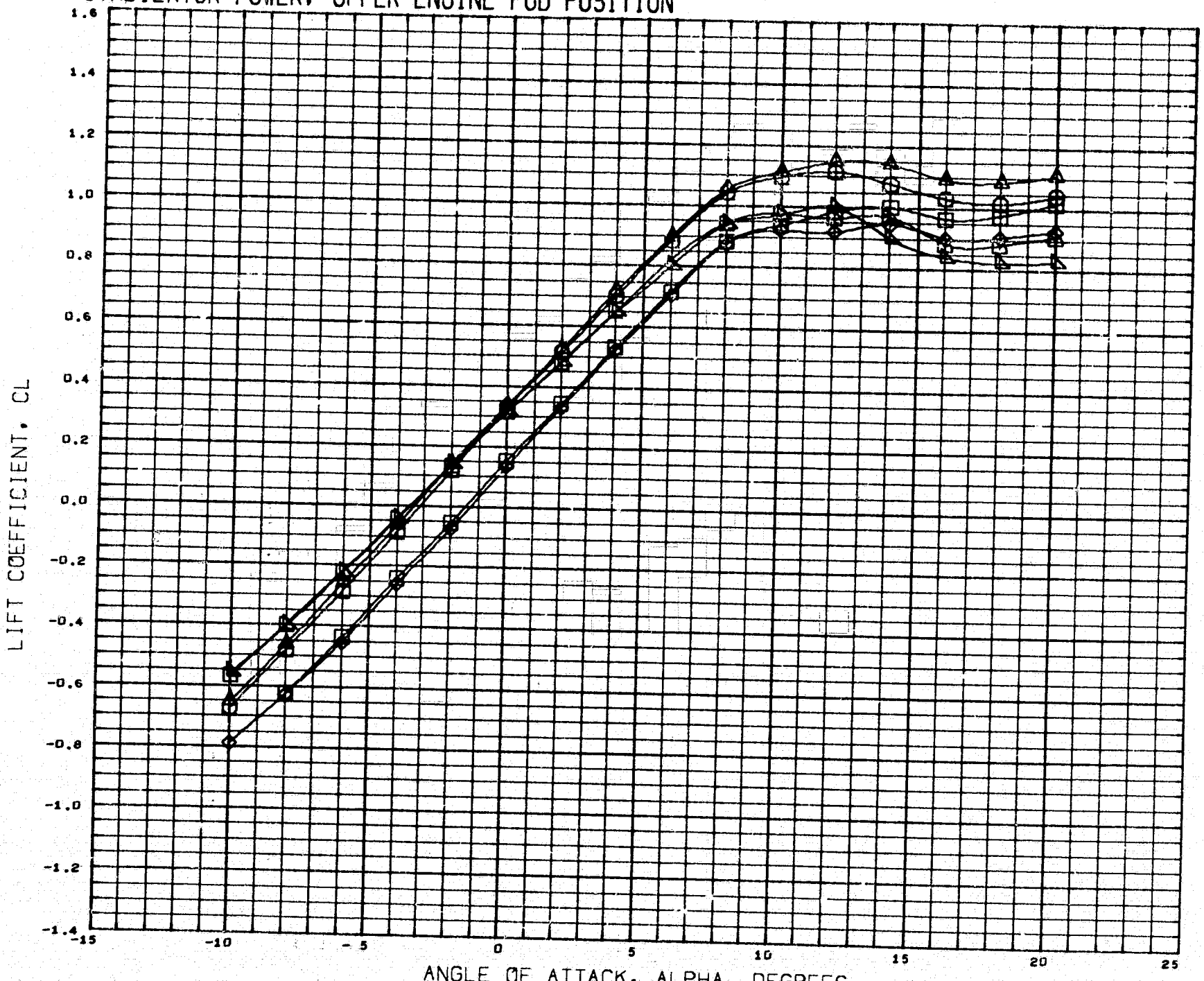
MACH 0.260

ELEVTR	PE/PO	BETA	HTAIL
0.000	0.990	0.000	-5.000
0.000	1.100	0.000	-5.000
0.000	3.400	0.000	-5.000
-10.000	0.990	0.000	-5.000
-10.000	3.400	0.000	-5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3600	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILATOR POWER, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB62)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB63)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB64)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB65)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB41)	▽	4.0 PC 01 LSWT 237 B4W2V1P2
(CCDB42)	▷	4.0 PC 01 LSWT 237 B4W2V1P2

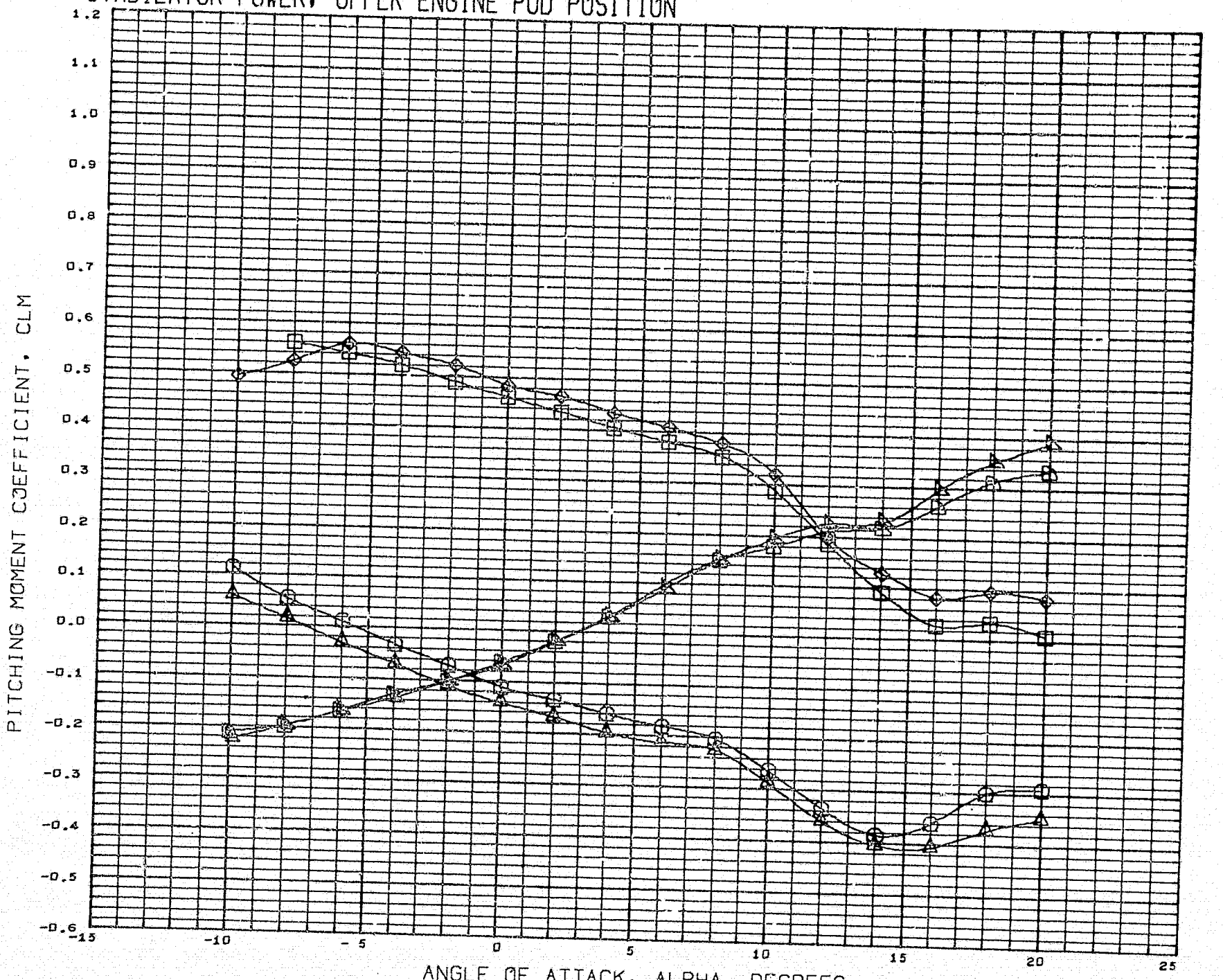
MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILATOR POWER, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB62)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB63)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB64)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB65)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB41)	△	4.0 PC 01 LSWT 237 B4W2V1P2
(CCDB42)	□	4.0 PC 01 LSWT 237 B4W2V1P2

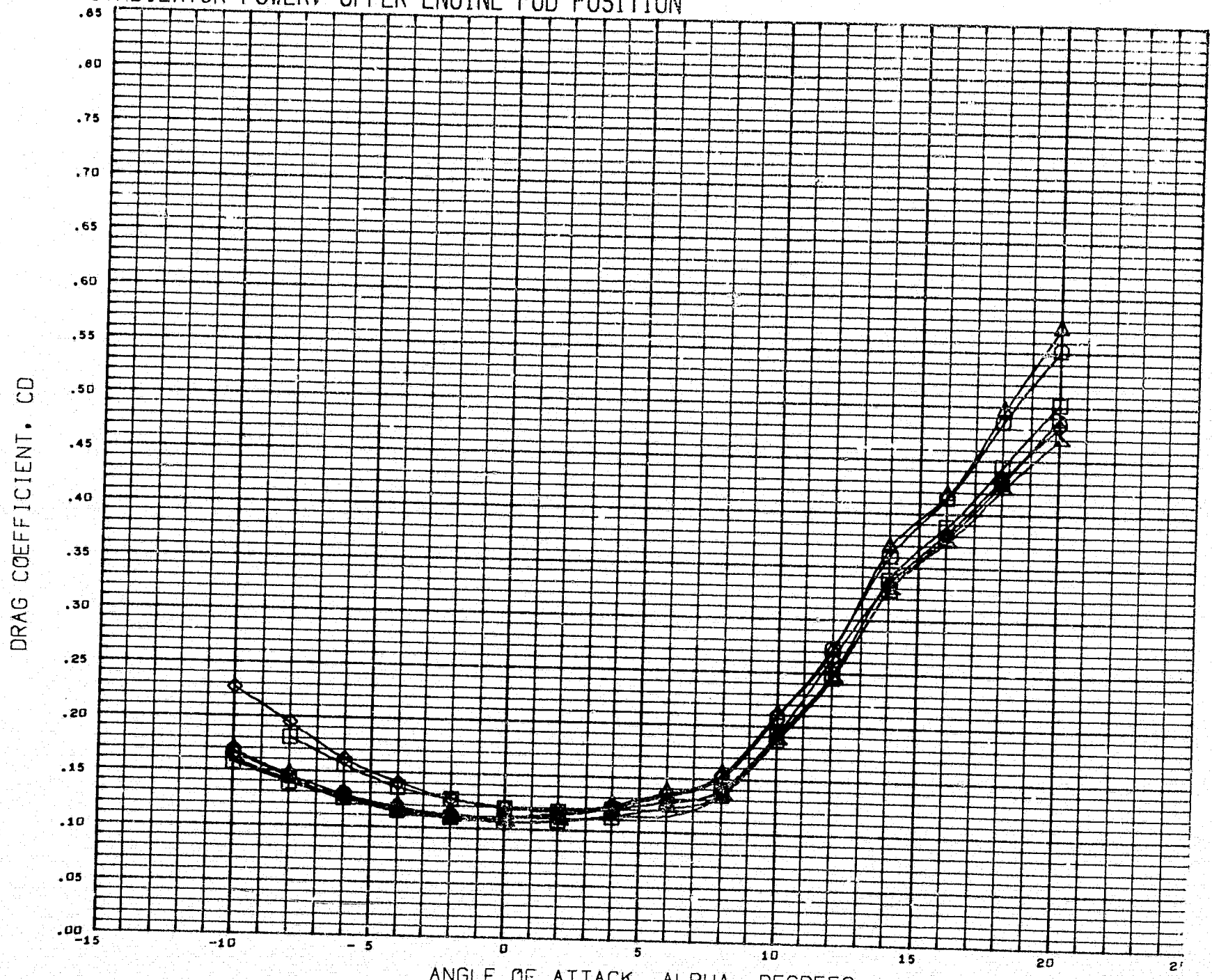
MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

STABILATOR POWER, UPPER ENGINE POD POSITION



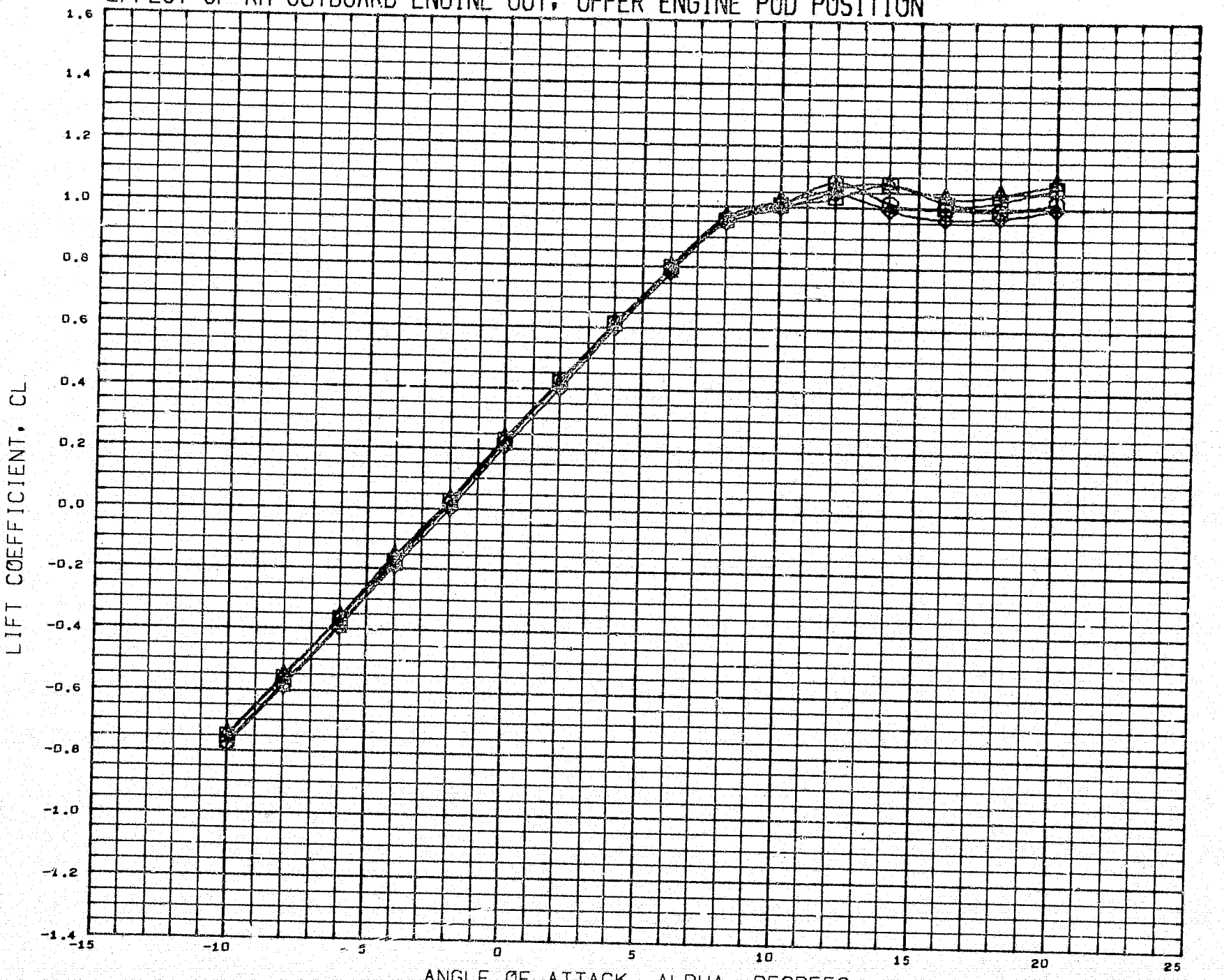
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB62)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB63)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB64)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB65)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB41)	▷	4.0 FC 01 LSWT 237 B4W2V1F2
(CCDB42)	▽	4.0 FC 01 LSWT 237 B4W2V1F2

MACH 0.260

HTAIL	ELEVTR	PE/PO	BETA
0.000	0.000	0.990	0.000
0.000	0.000	3.400	0.000
-10.000	0.000	0.990	0.000
-10.000	0.000	3.400	0.000
		0.990	0.000
		3.400	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3400	IN.
XMRP	37.3400	IN
YMRP	0.0000	IN
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



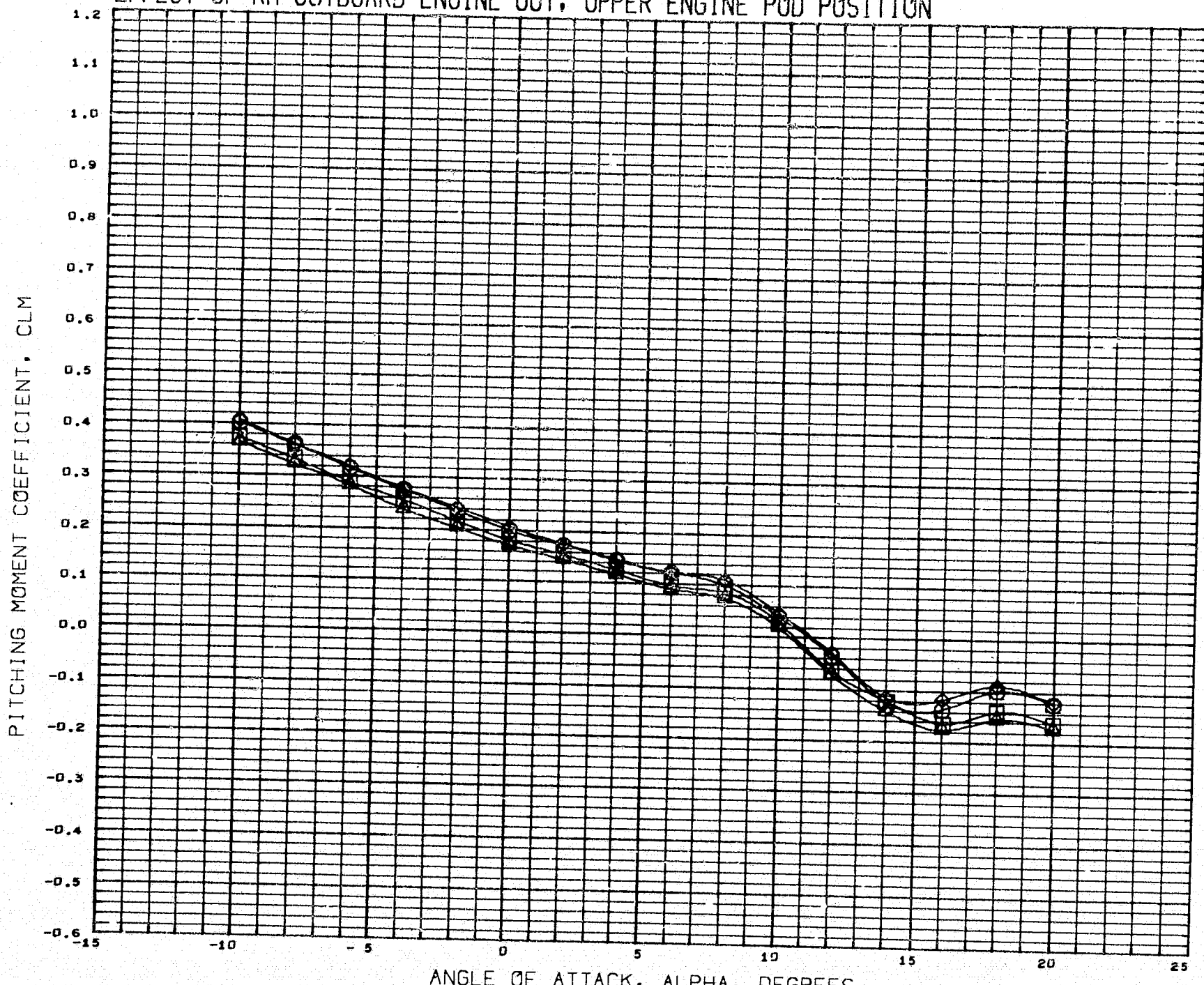
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB46)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB51)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB46)	△	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB51)	◇	4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB52)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2

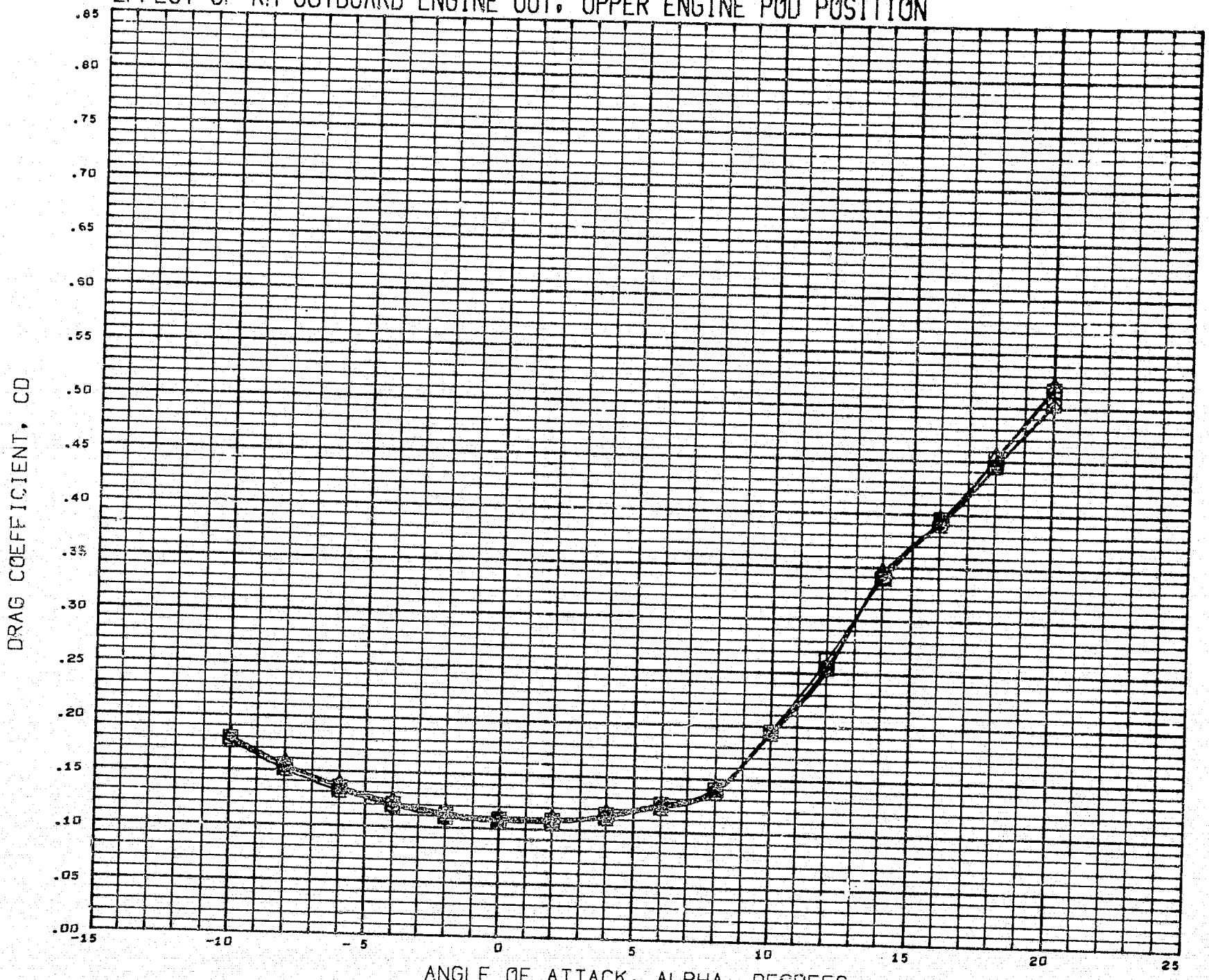
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9450	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



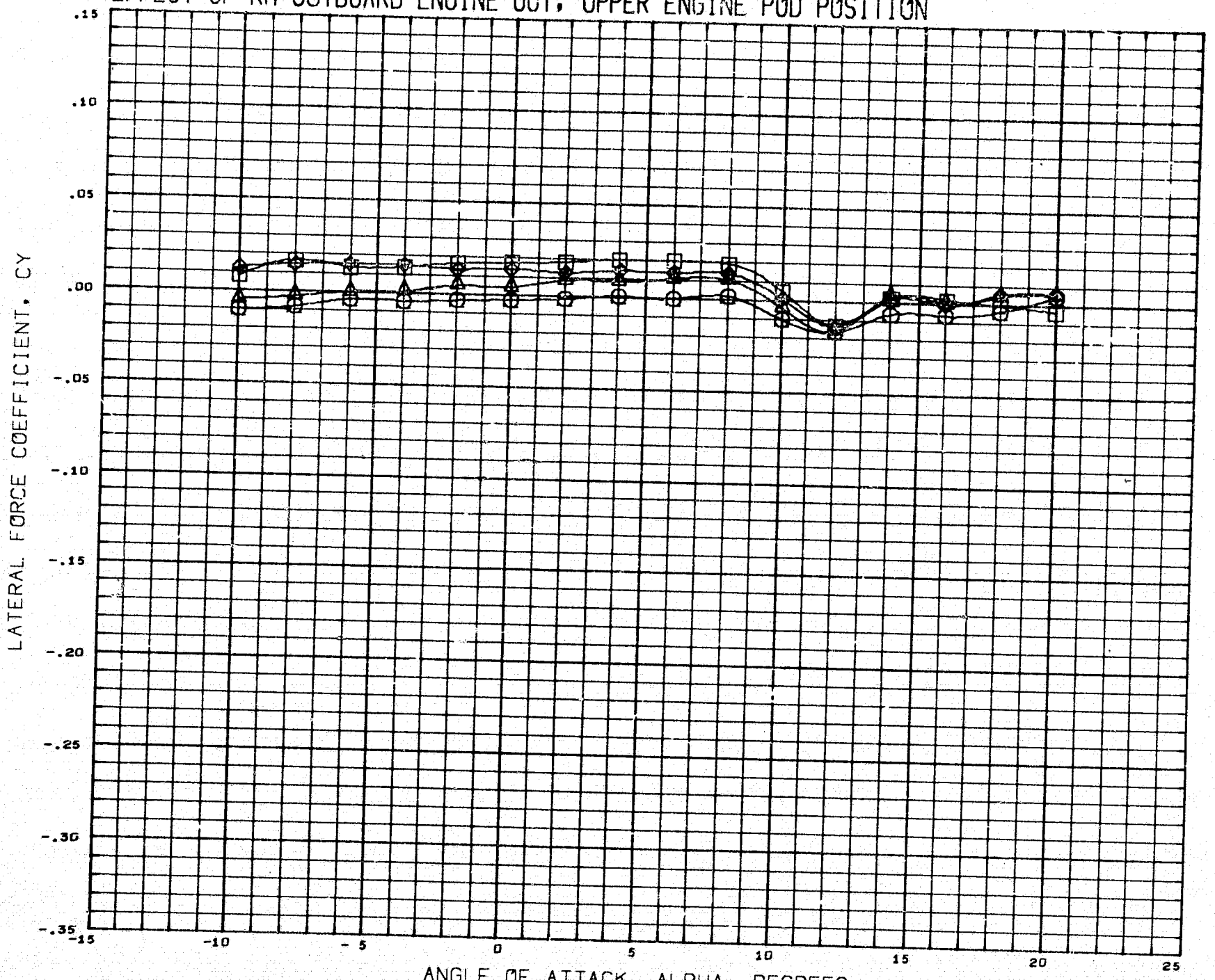
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB46)	△	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB51)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	□	4.0 FC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

ELEVTR	FE/FO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB46)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB51)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

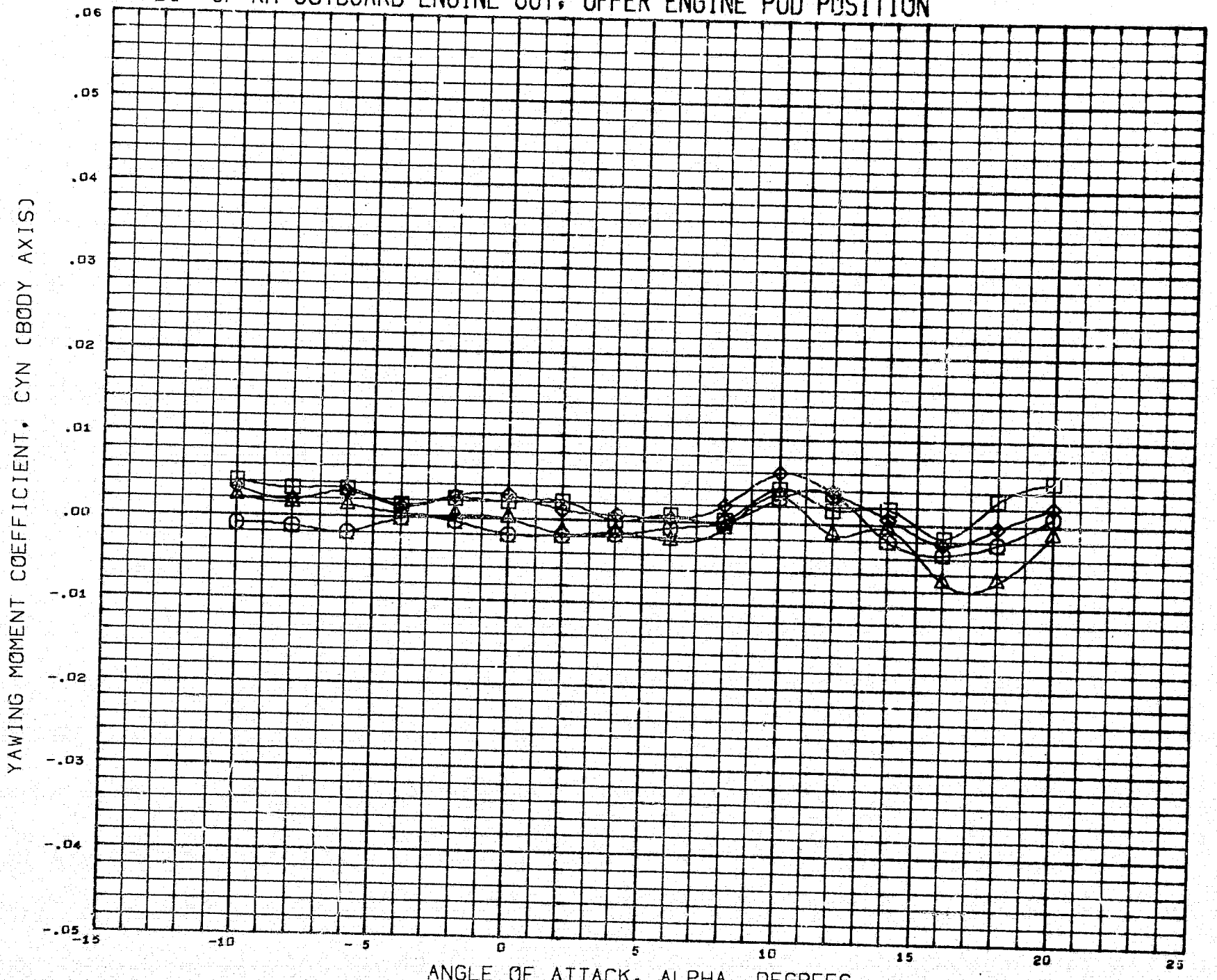
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB46)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB51)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

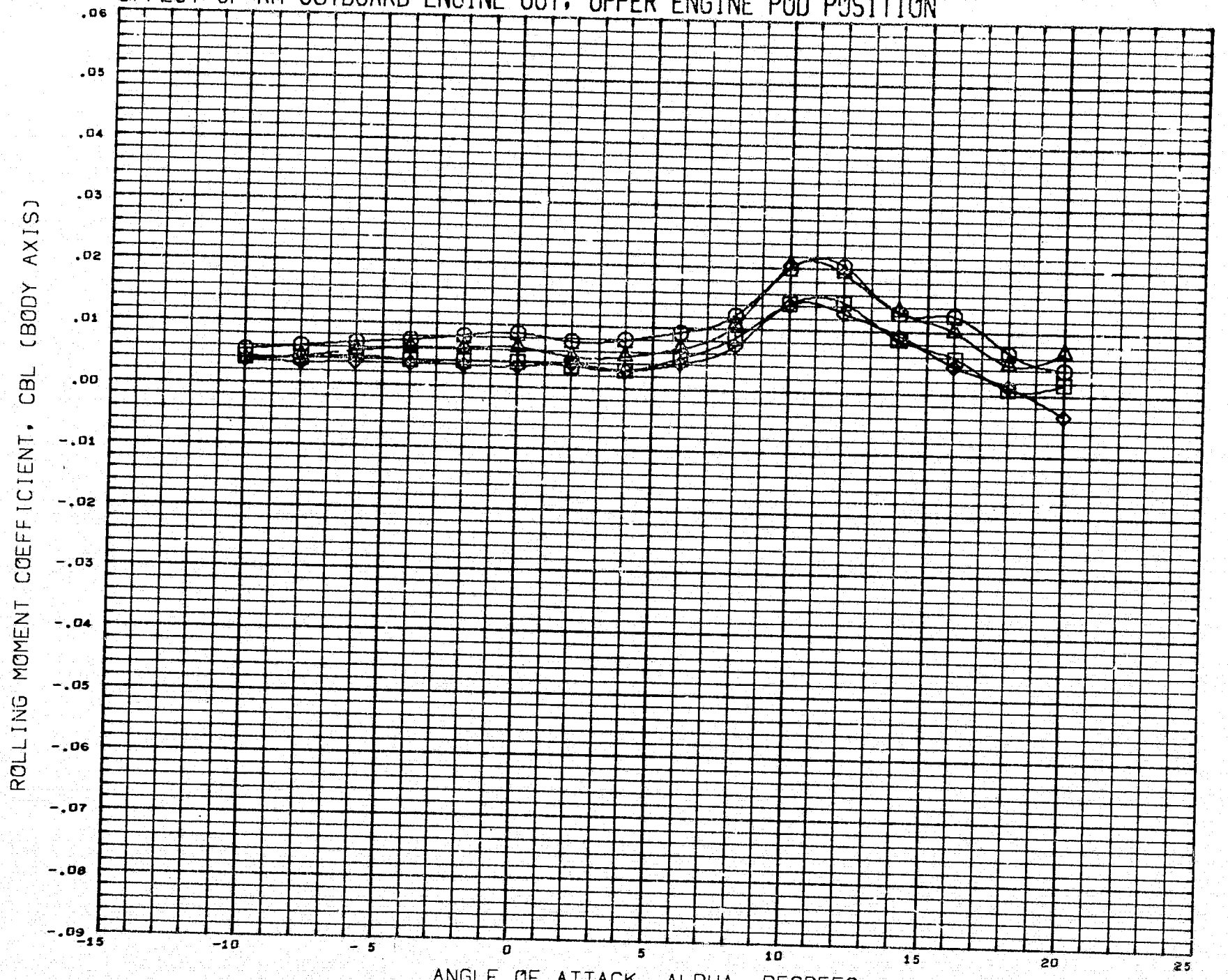
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB45)	○	4.0 PC 01 LSWT 237 B1W2V1H1P2
(CCDB46)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB51)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	1.100	1.000	0.000
0.000	3.400	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0300	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION

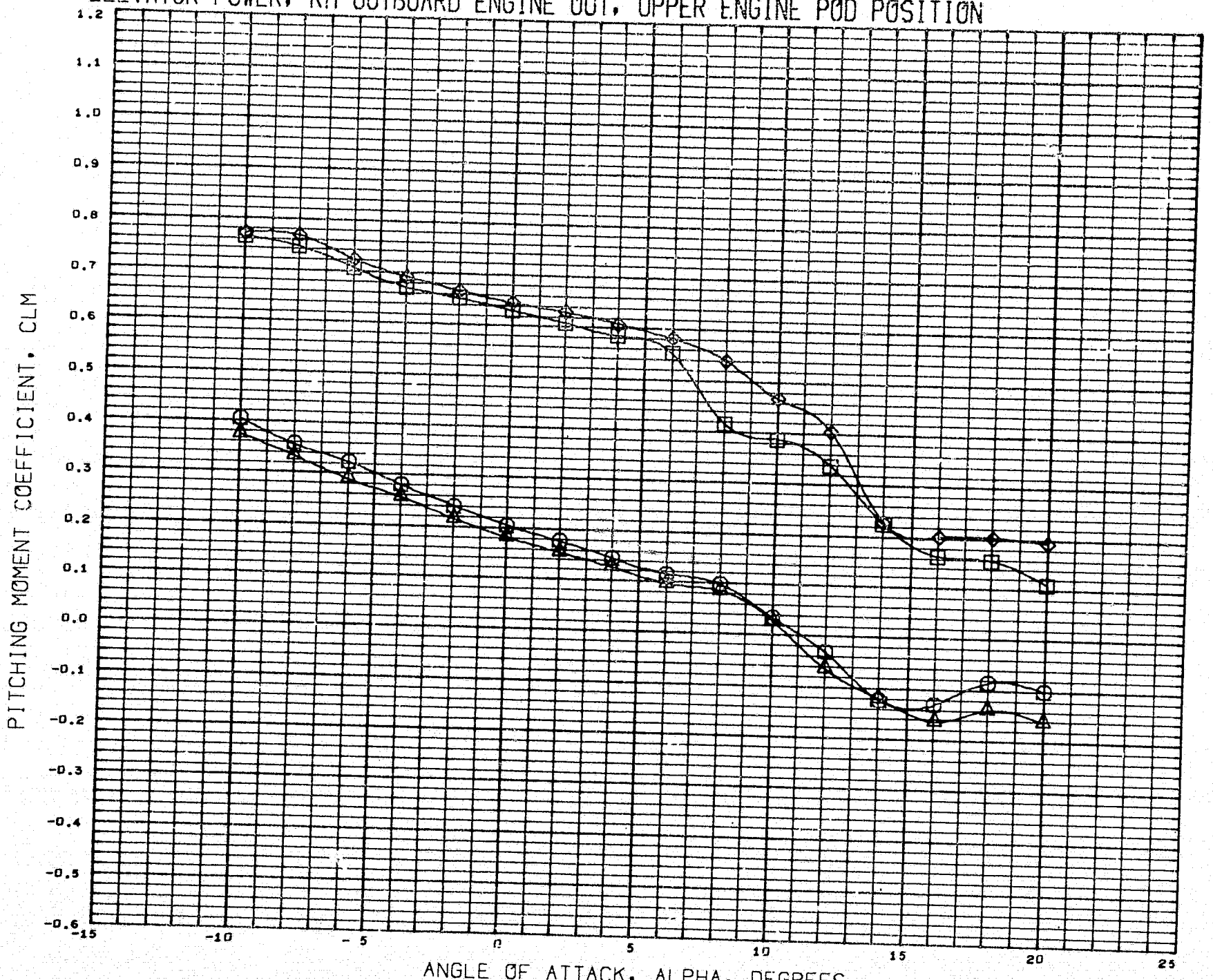
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB52)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB57)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB59)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2

MACH 0.260

ELEVTR	FE/FO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9410	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB59)	4.0 PC 01 LSWT 237 B4W2V1H1P2

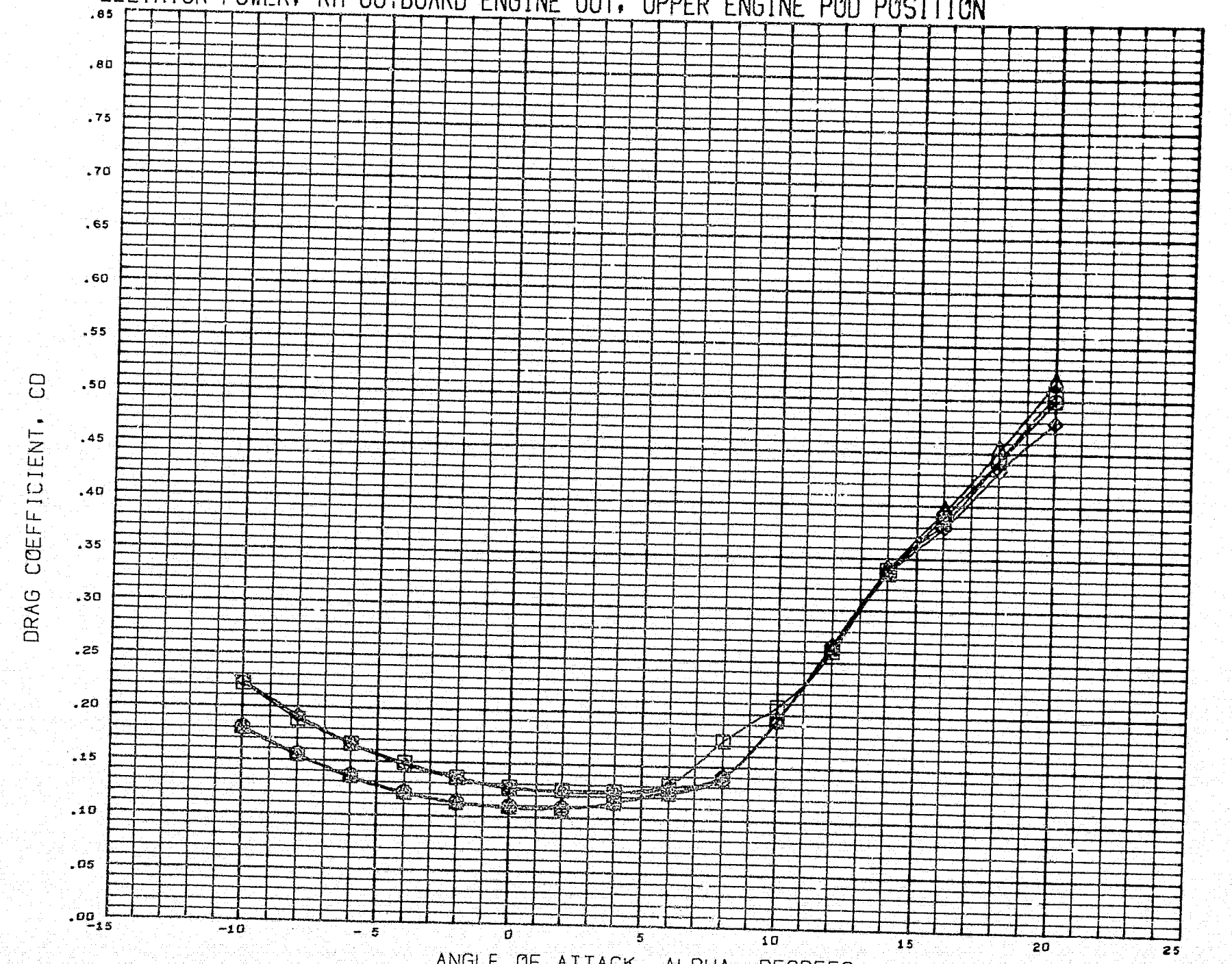
MACH 0.260

ELEVTR	FE/FO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



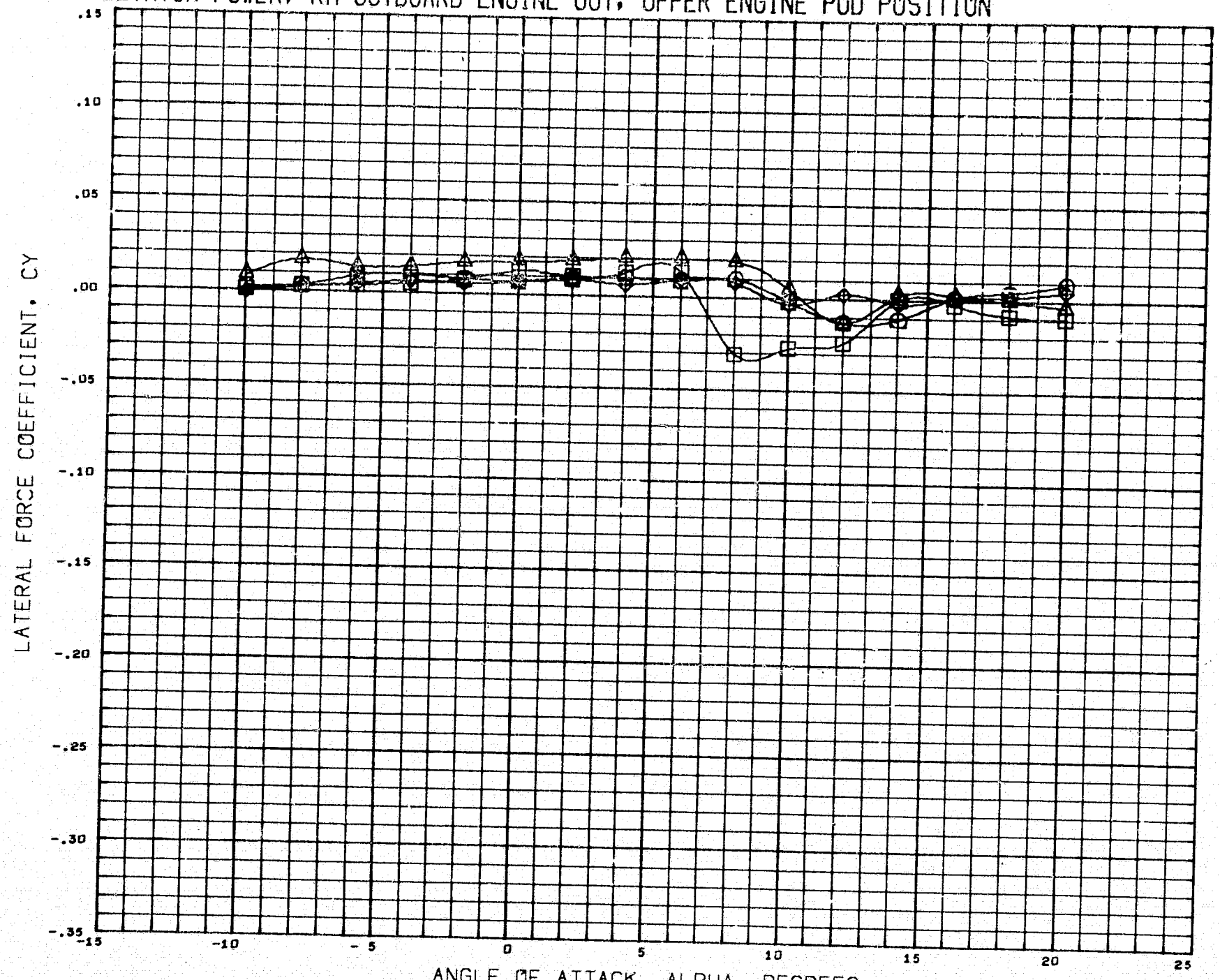
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB59)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	FCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



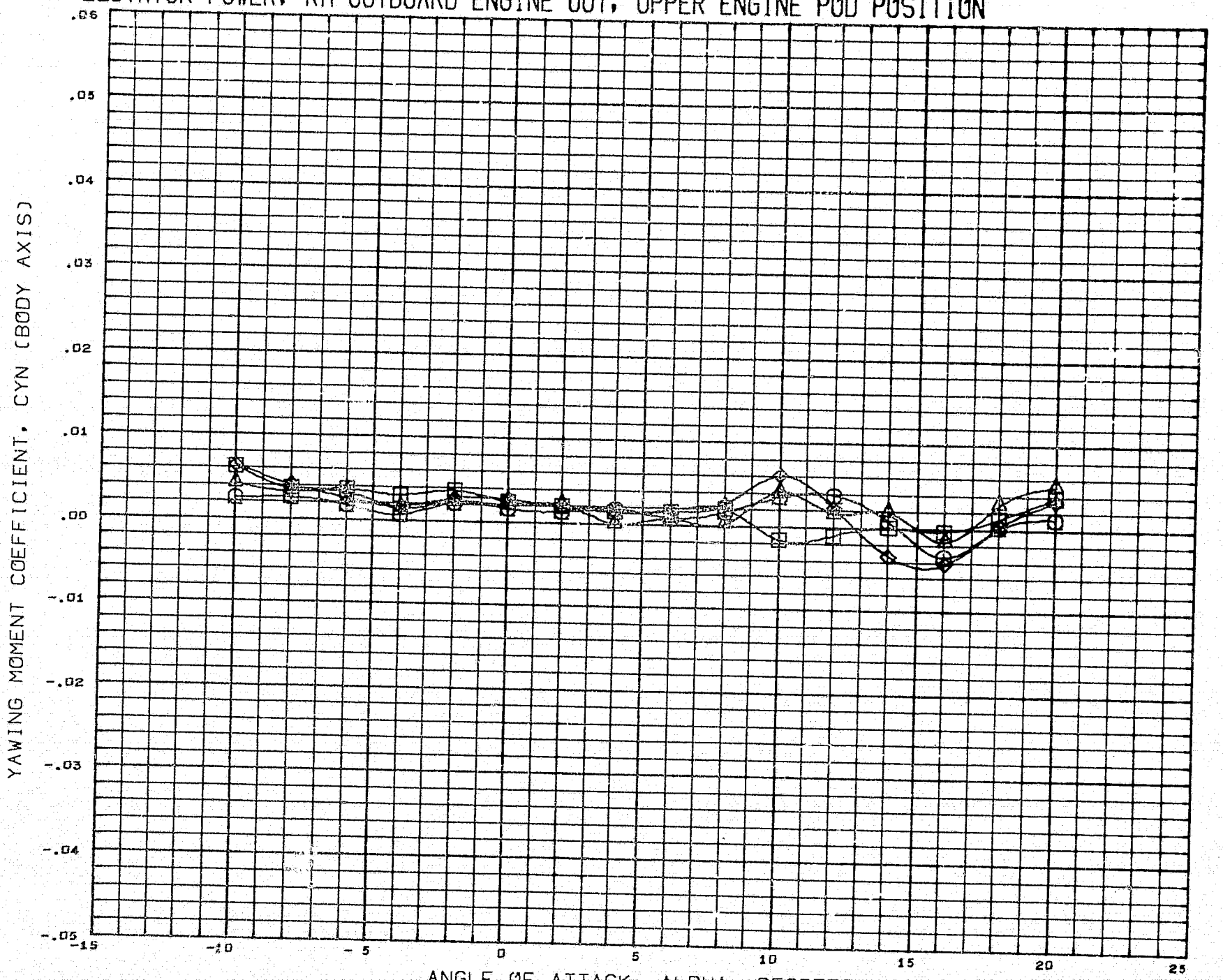
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB52)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB59)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9430	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B1W2V1H1P2
(CCDB52)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB59)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

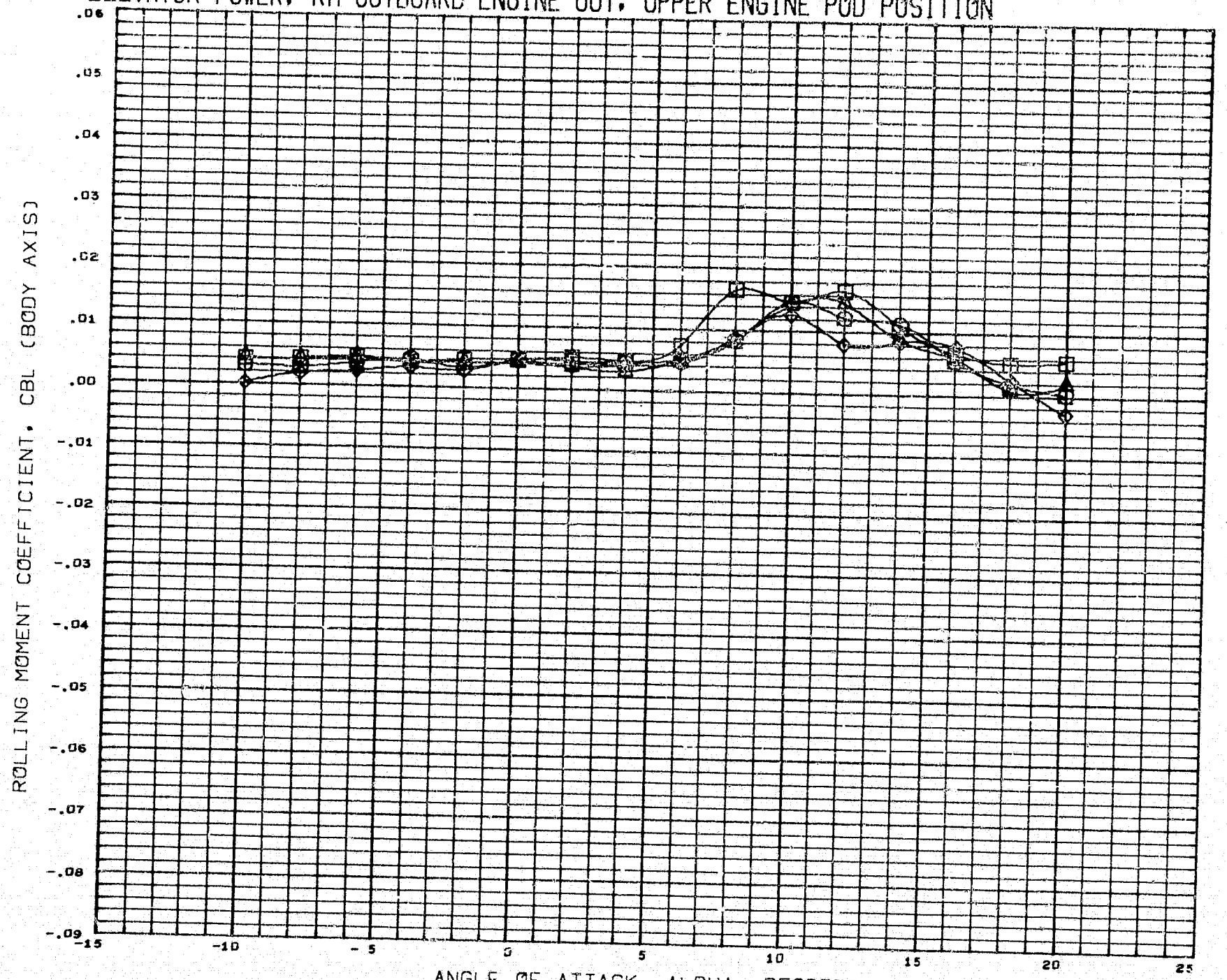
MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB52)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB57)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB59)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2

MACH 0.260

ELEVTR	PE/PO	RHOB	BETA
0.000	0.990	1.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9406	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB55)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB56)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB60)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

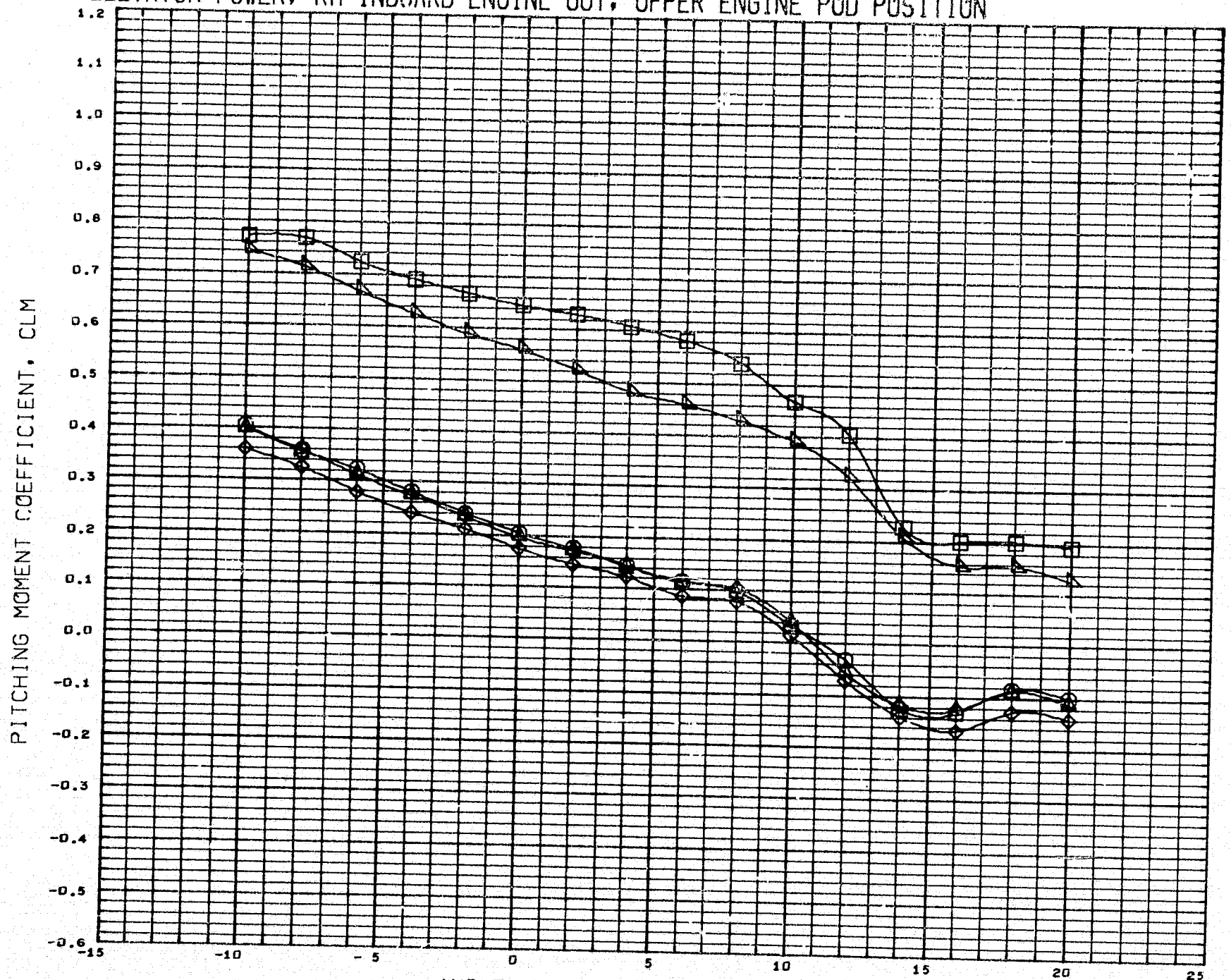
ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

8 (9)

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)		4.0 PC 01 LSWT 237 B1W2V1H1P2
(CCDB55)		4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB56)		4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)		4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB60)		4.0 PC 01 LSWT 237 B4W2V1H1P2

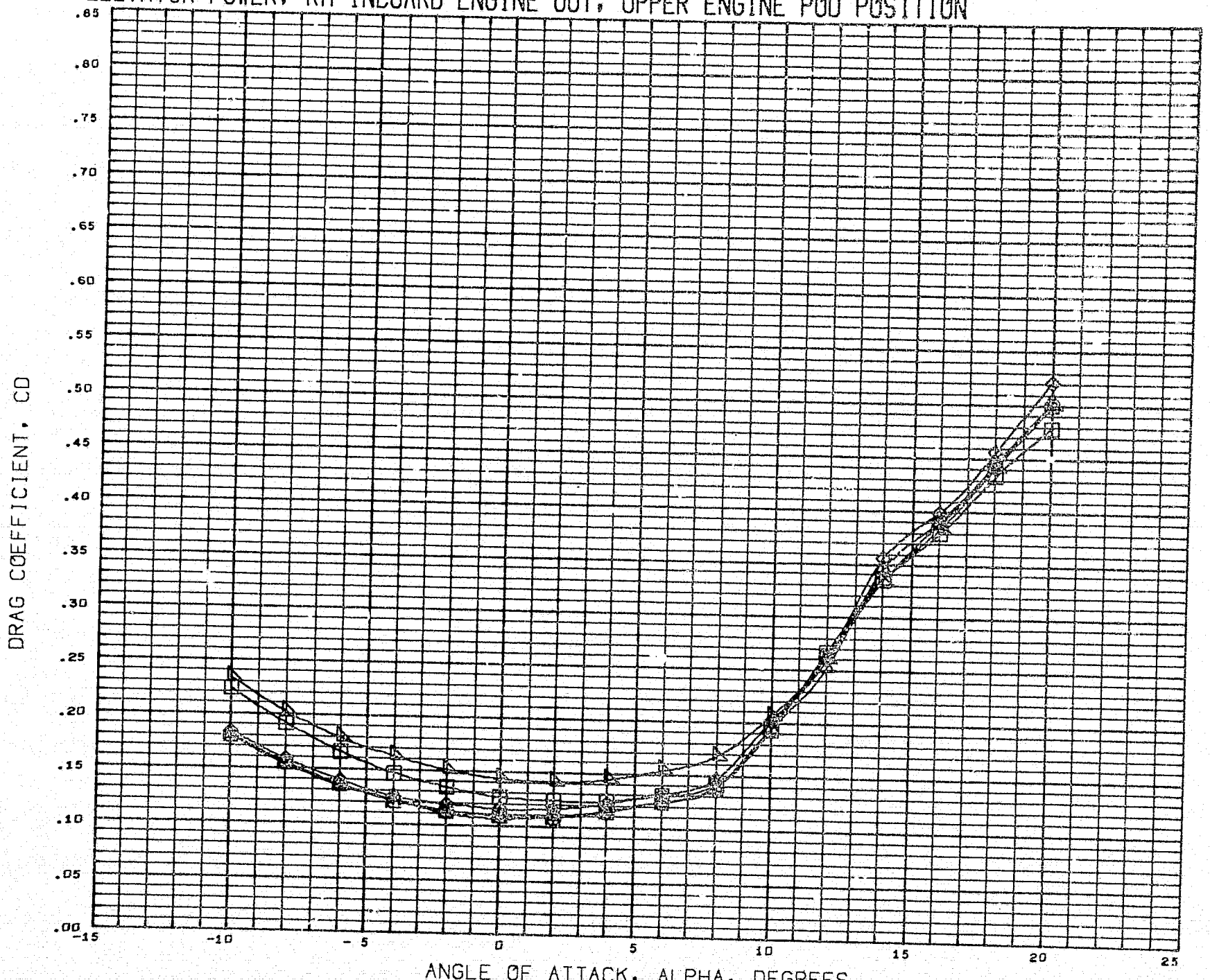
MACH 0.260

ELEVTR	FE/FO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9405	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB55)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB56)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB60)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2

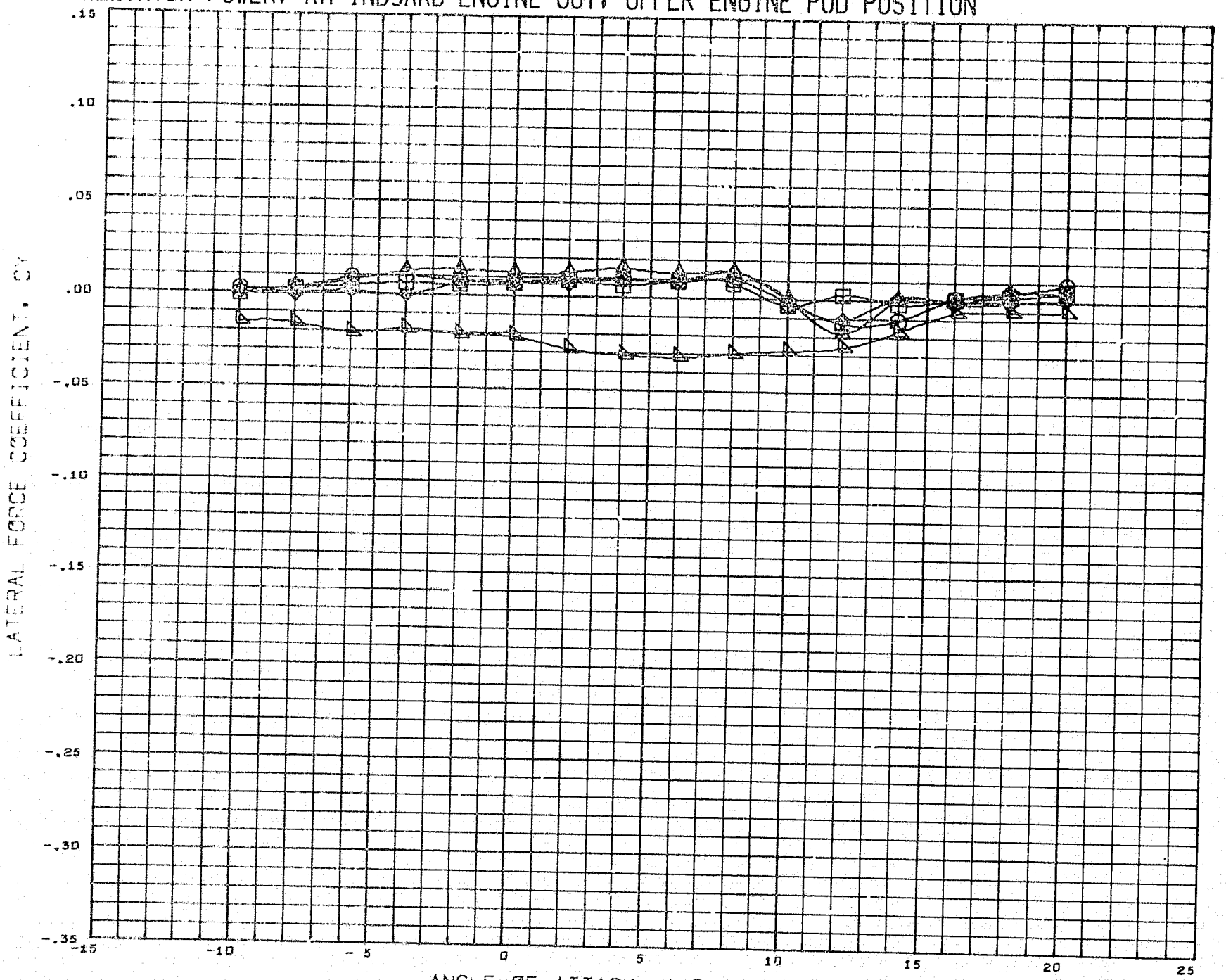
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION



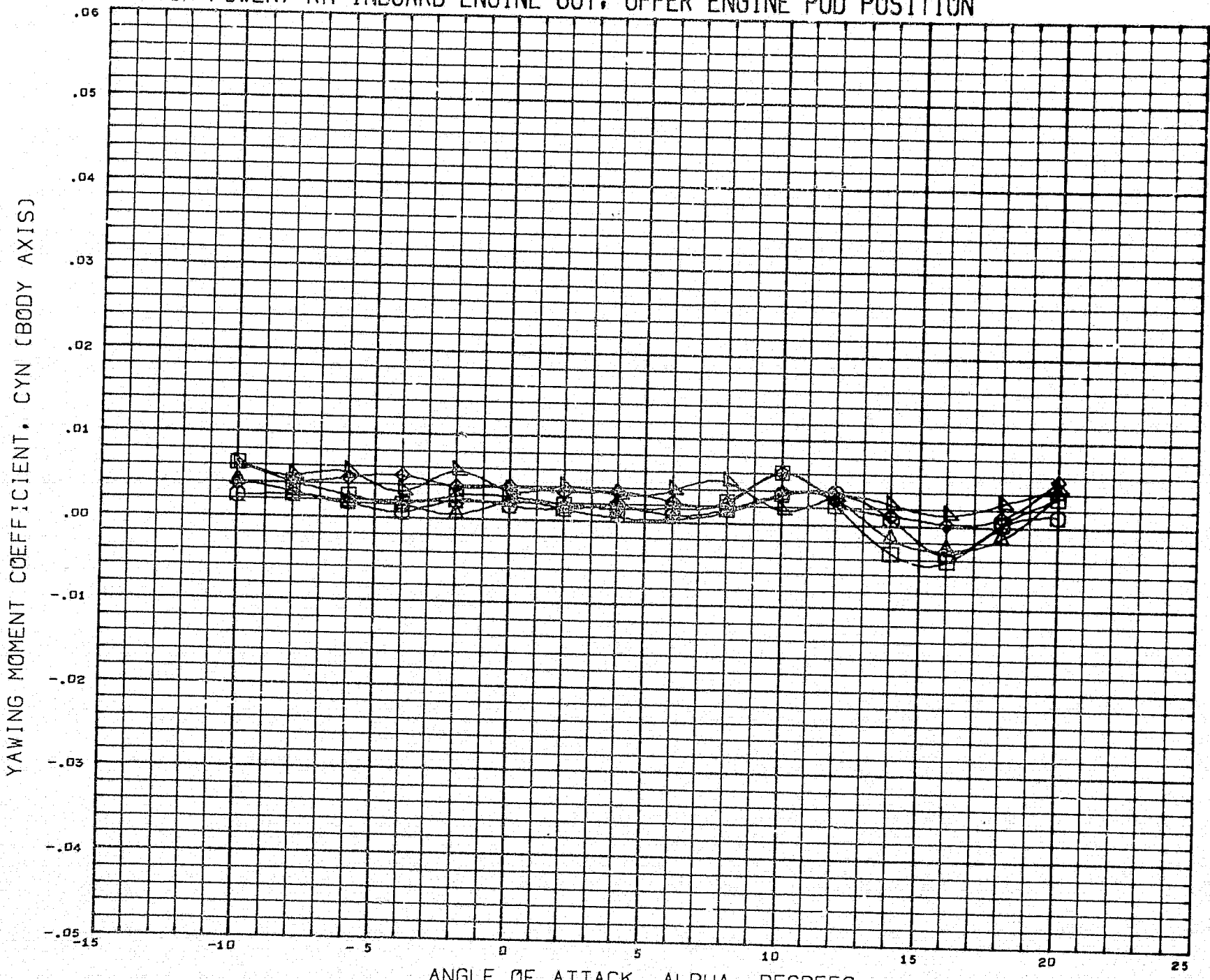
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB55)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB56)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB57)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB60)	▽	4.0 FC 01 LSWT 237 B4W2V1H1F2

MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB55)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB56)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB60)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2

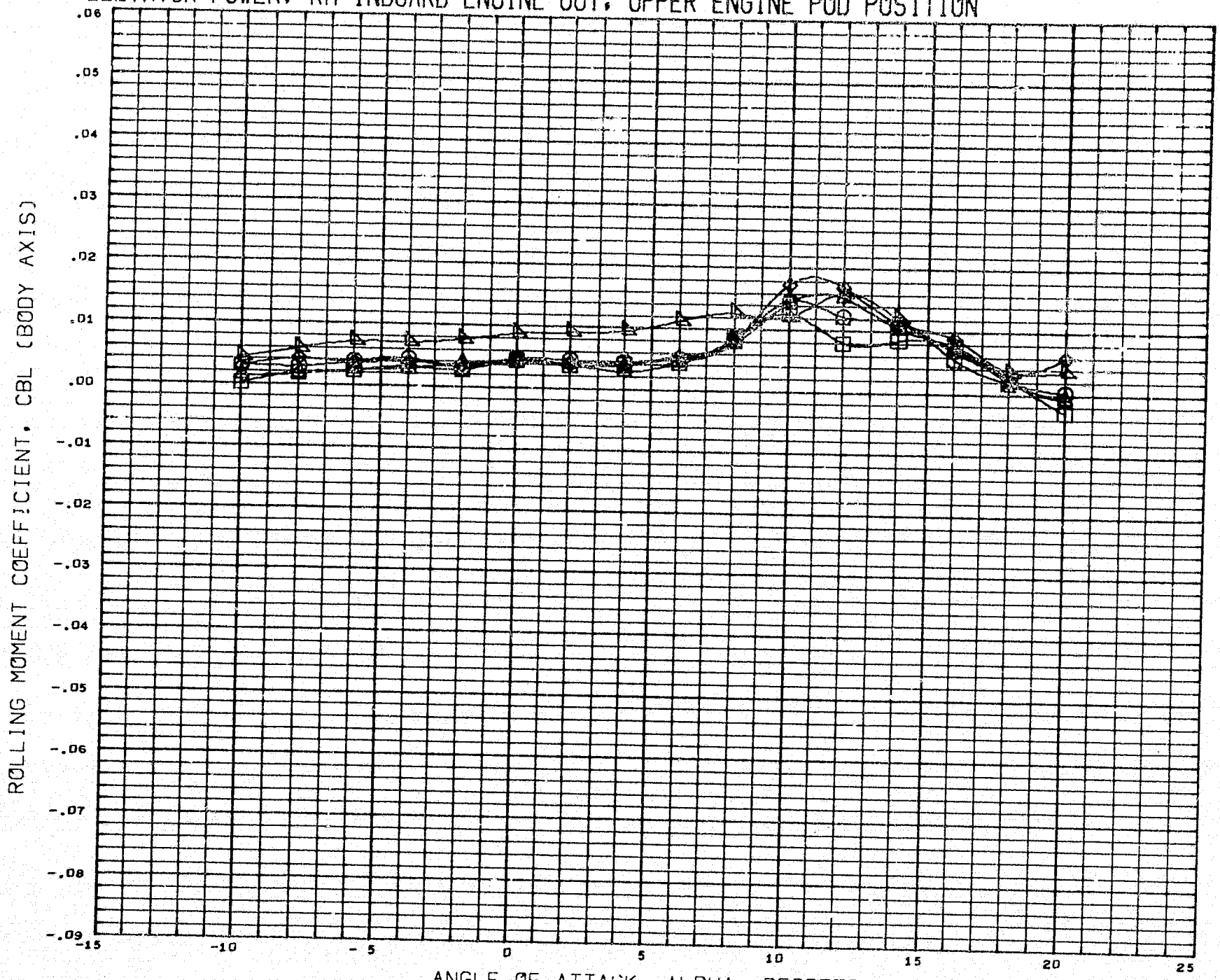
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	FCT.

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB44)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB55)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB56)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB57)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB60)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2

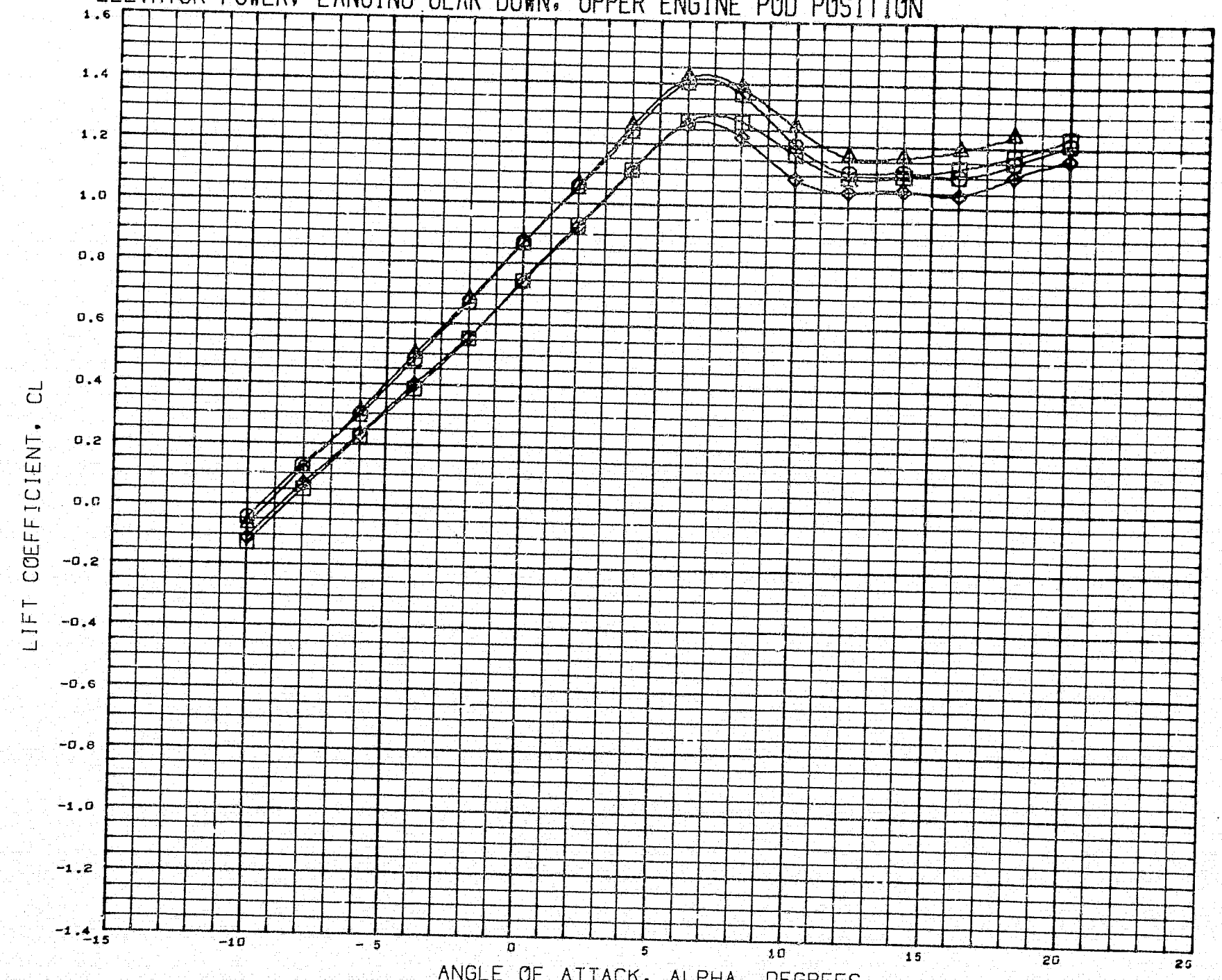
MACH 0.260

ELEVTR	PE/PO	RHIB	BETA
0.000	0.990	1.000	0.000
0.000	1.100	0.000	0.000
0.000	3.400	0.000	0.000
-10.000	0.990	1.000	0.000
-10.000	3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LANGING GEAR DOWN, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB34)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB35)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB36)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB37)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2F26

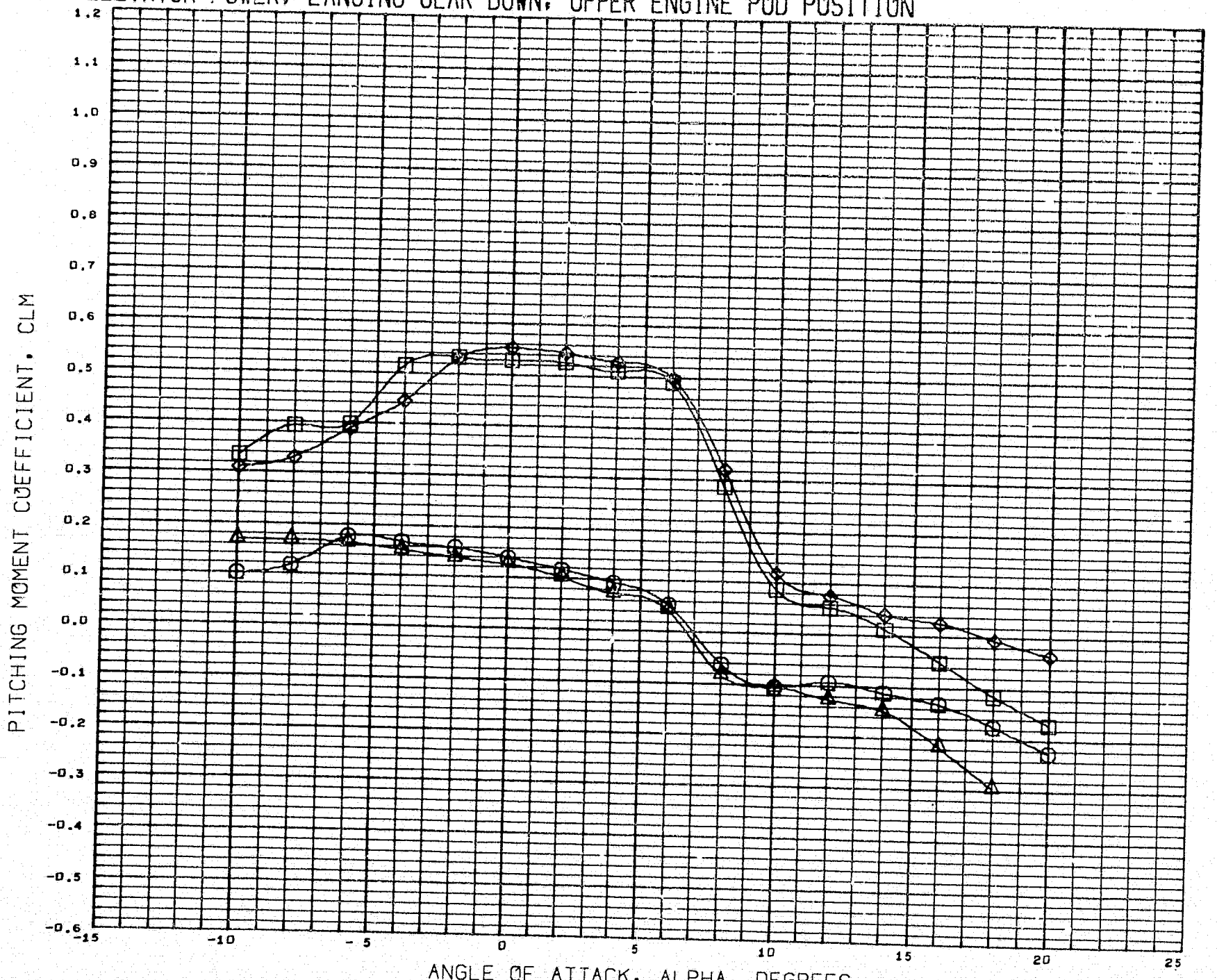
MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LANGING GEAR DOWN, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB34)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB35)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB36)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB37)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2F26

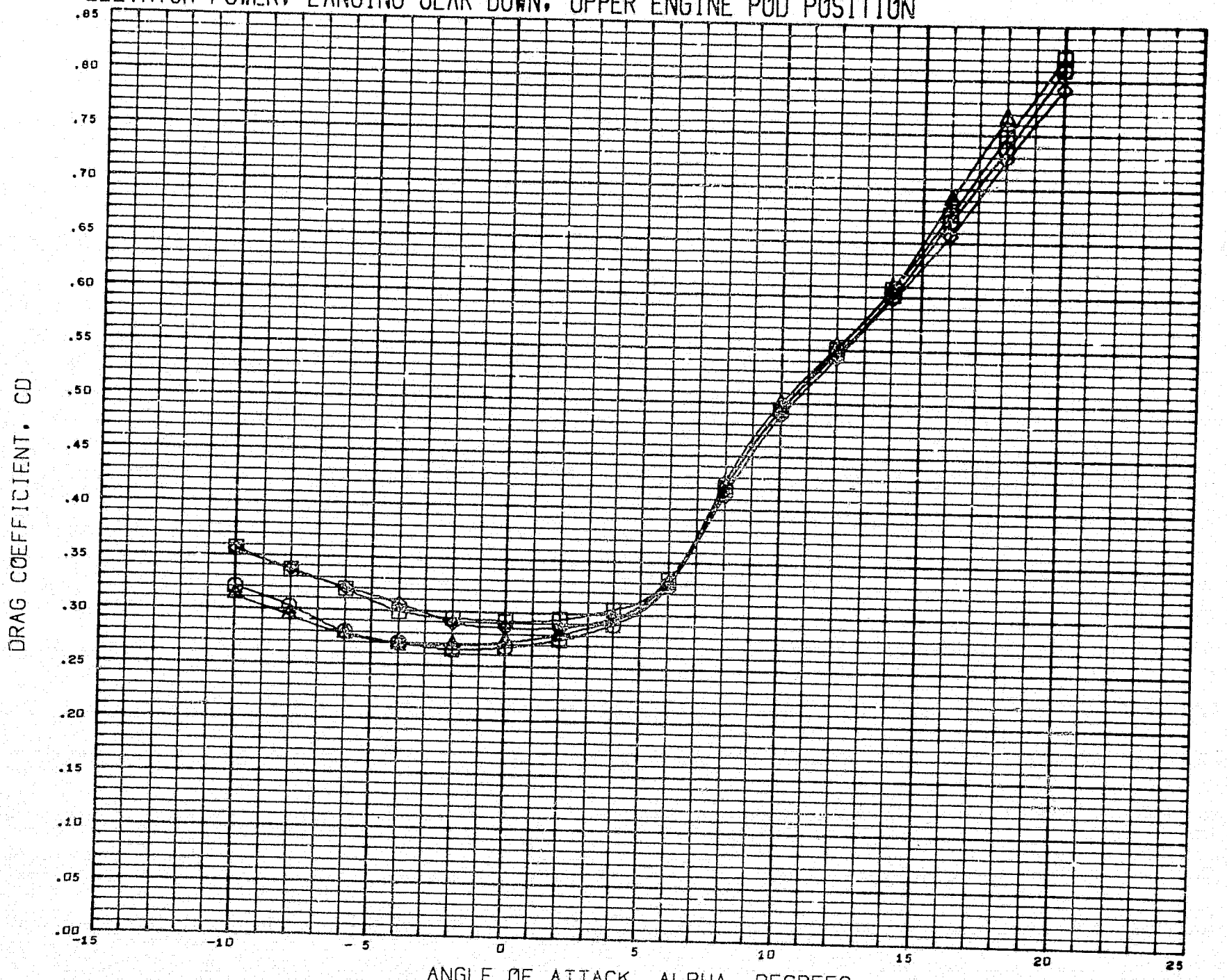
MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

ELEVATOR POWER, LANGING GEAR DOWN, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB34)	○	4.0 PC 01 LSWT 237 B4W2V1H1F2F26
(CCDB35)	△	4.0 PC 01 LSWT 237 B4W2V1H1F2F26
(CCDB36)	◇	4.0 PC 01 LSWT 237 B4W2V1H1F2F26
(CCDB37)	□	4.0 PC 01 LSWT 237 B4W2V1H1F2F26

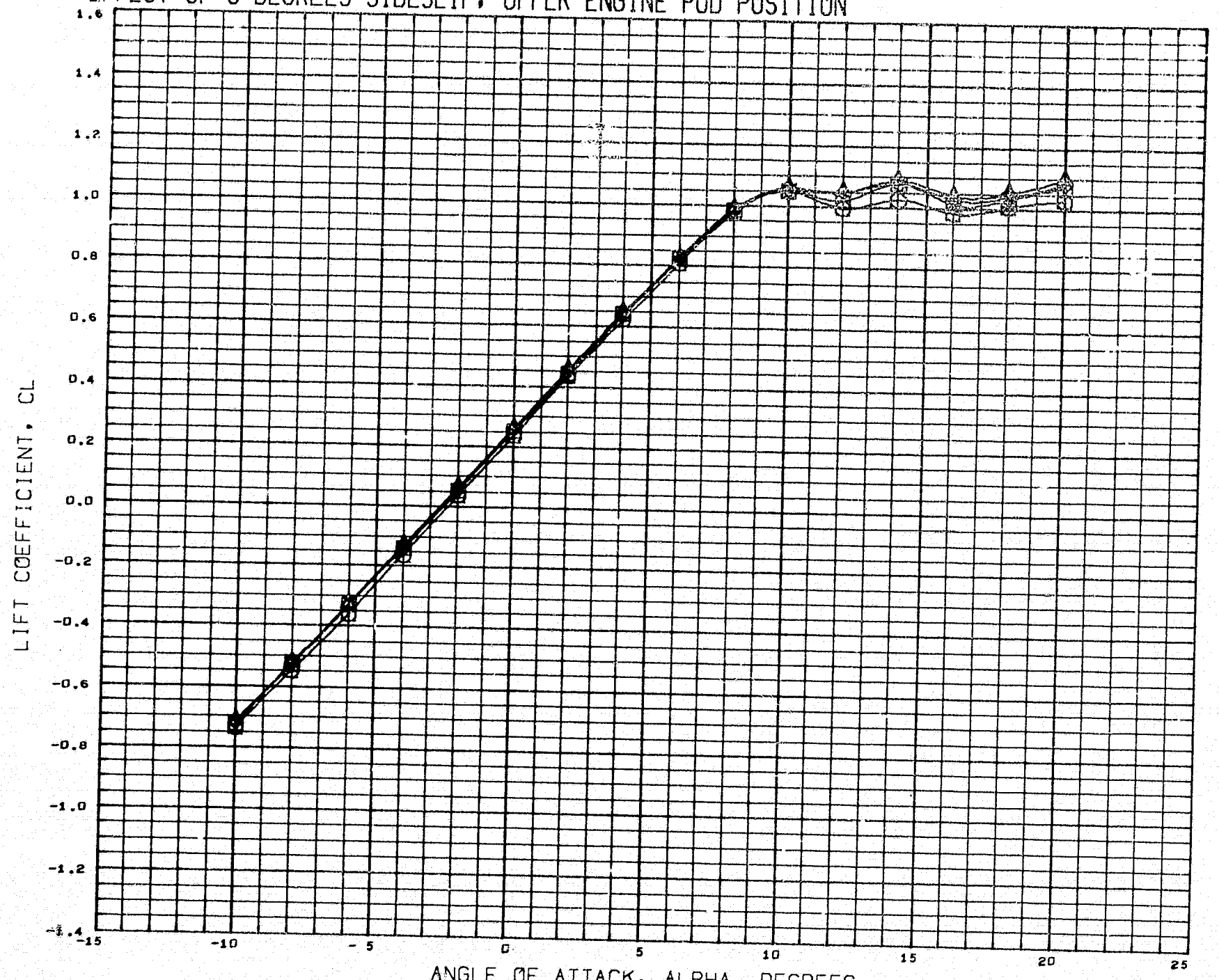
MACH 0.260

ELEVTR	PE/PO	FLAP	BETA
0.000	0.990	45.000	0.000
0.000	3.400	45.000	0.000
-10.000	0.990	45.000	0.000
-10.000	3.400	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 PC 01 LSWT 237 34W2V1H1P2
(CCDB48)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB53)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB54)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

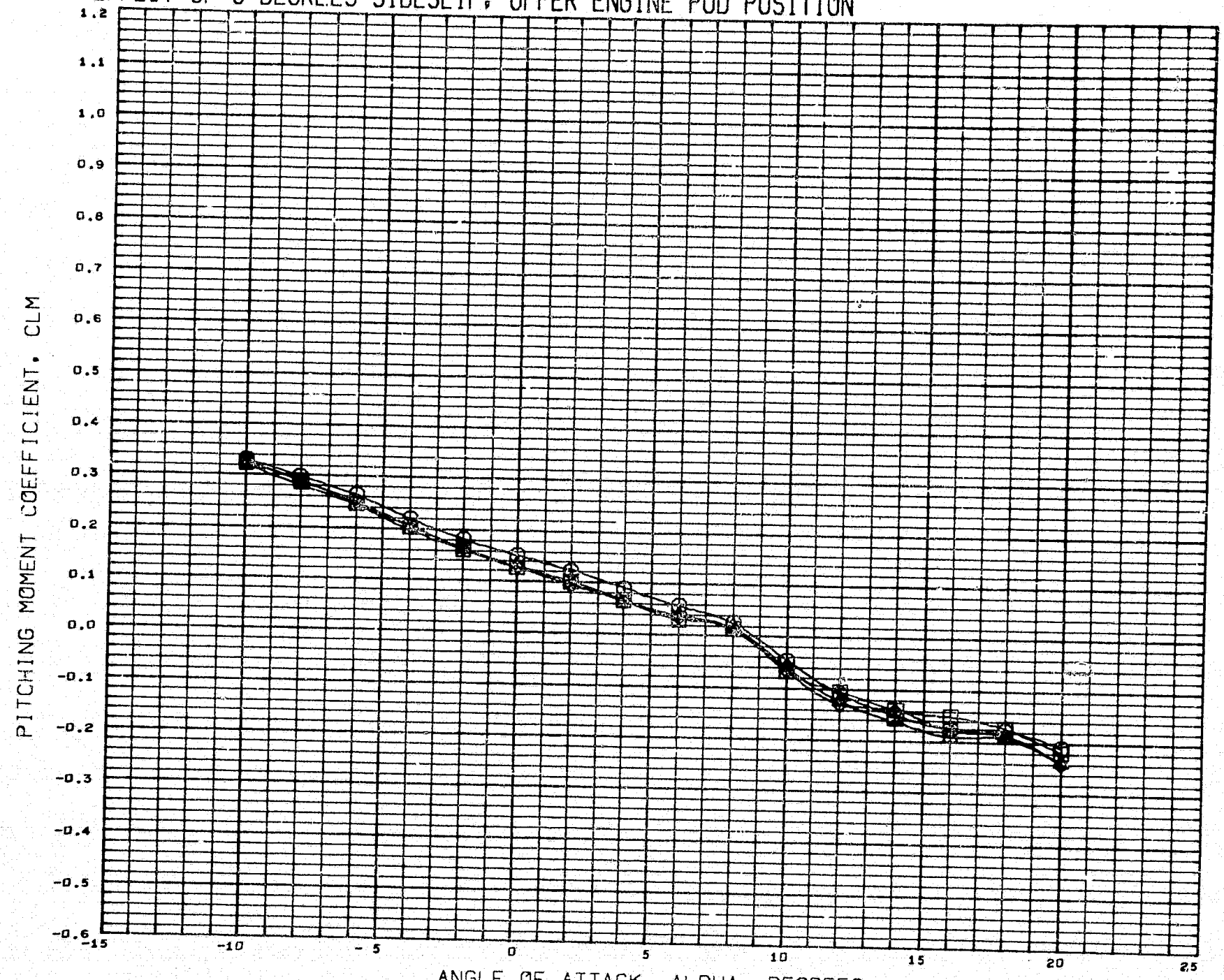
MACH 0.260

RHOB	RHIB	FE/FO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



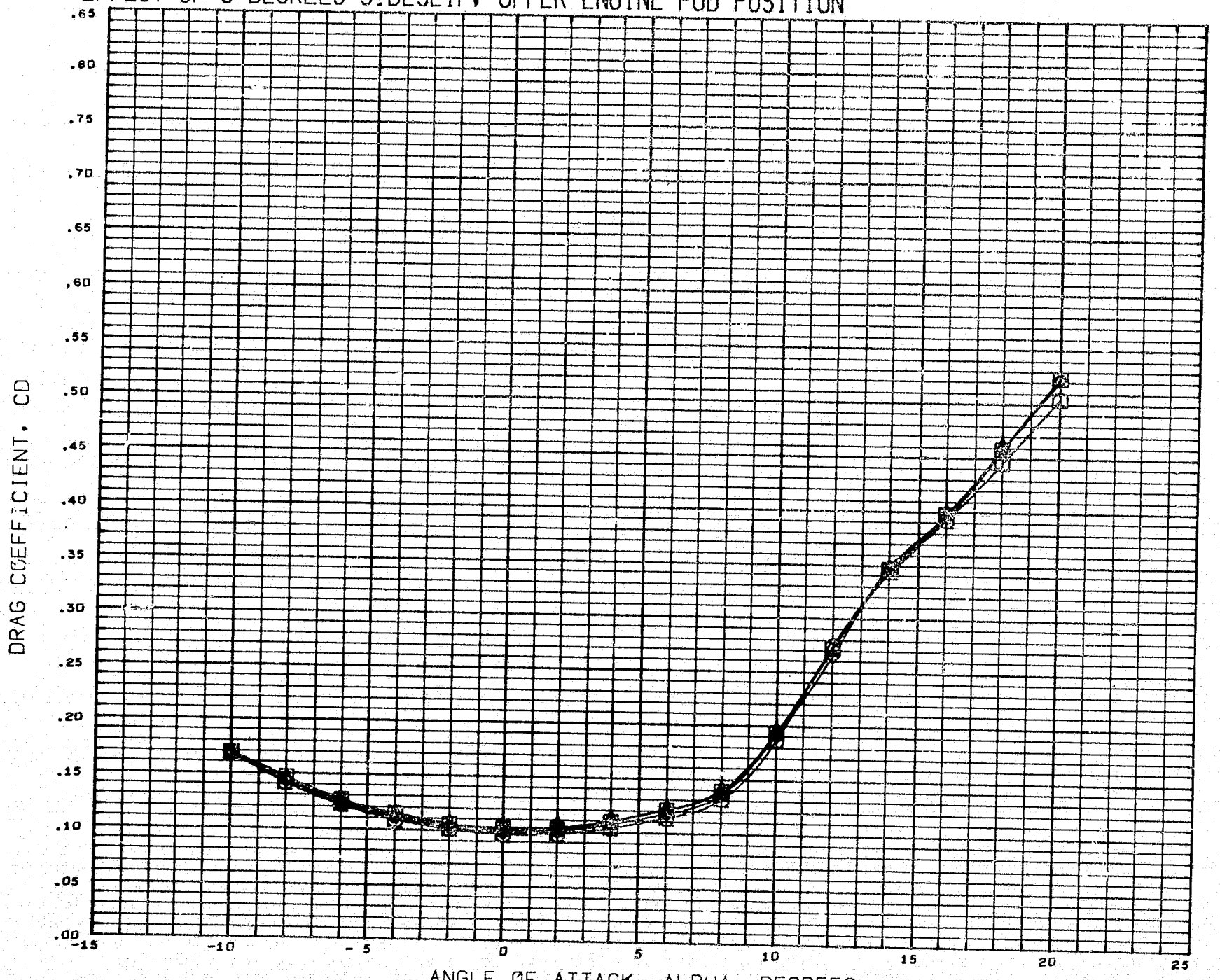
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB48)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB53)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB54)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9410	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB47)		4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB48)		4.0 PC 01 LSWT 237 B4W2V1H1F2
(CCDB53)		4.0 PC 01 LSWT 237 B4W2V1H1FC
(CCDB54)		4.0 PC 01 LSWT 237 B4W2V1H1F2

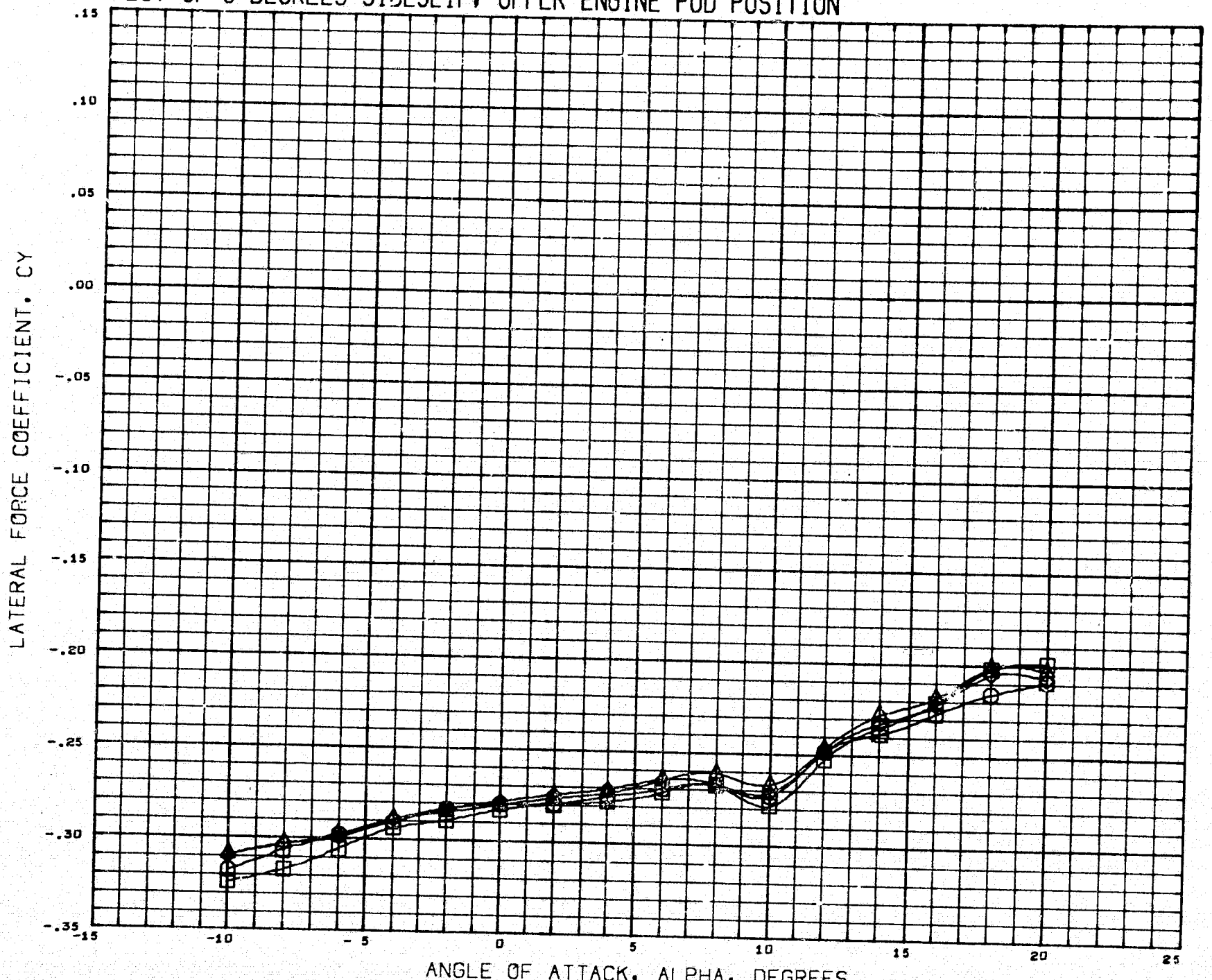
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB48)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB53)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB54)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2

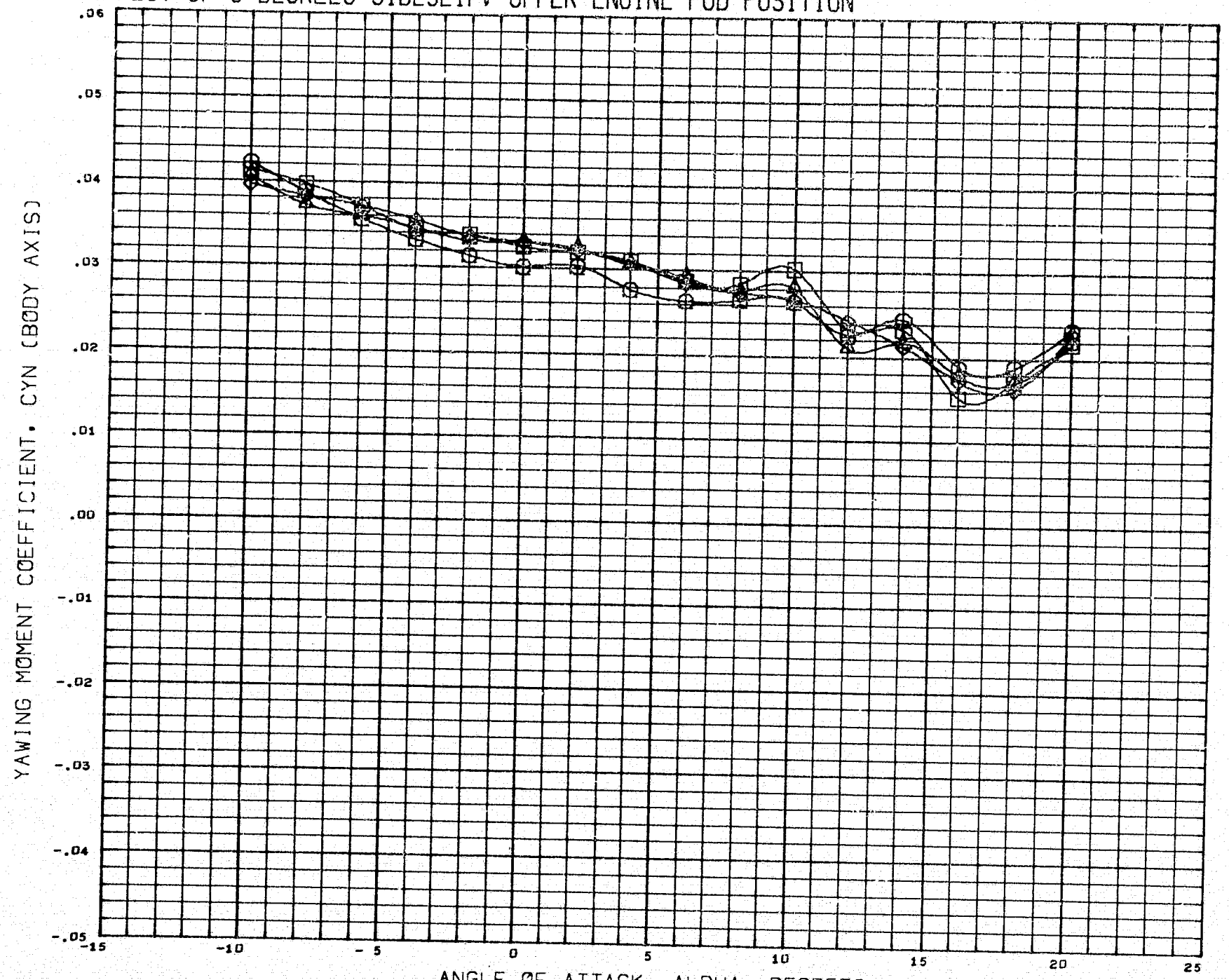
MACH 0.200

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB48)	△	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB53)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P2
(CCDB54)	□	4.0 FC 01 LSWT 237 B4W2V1H1P2

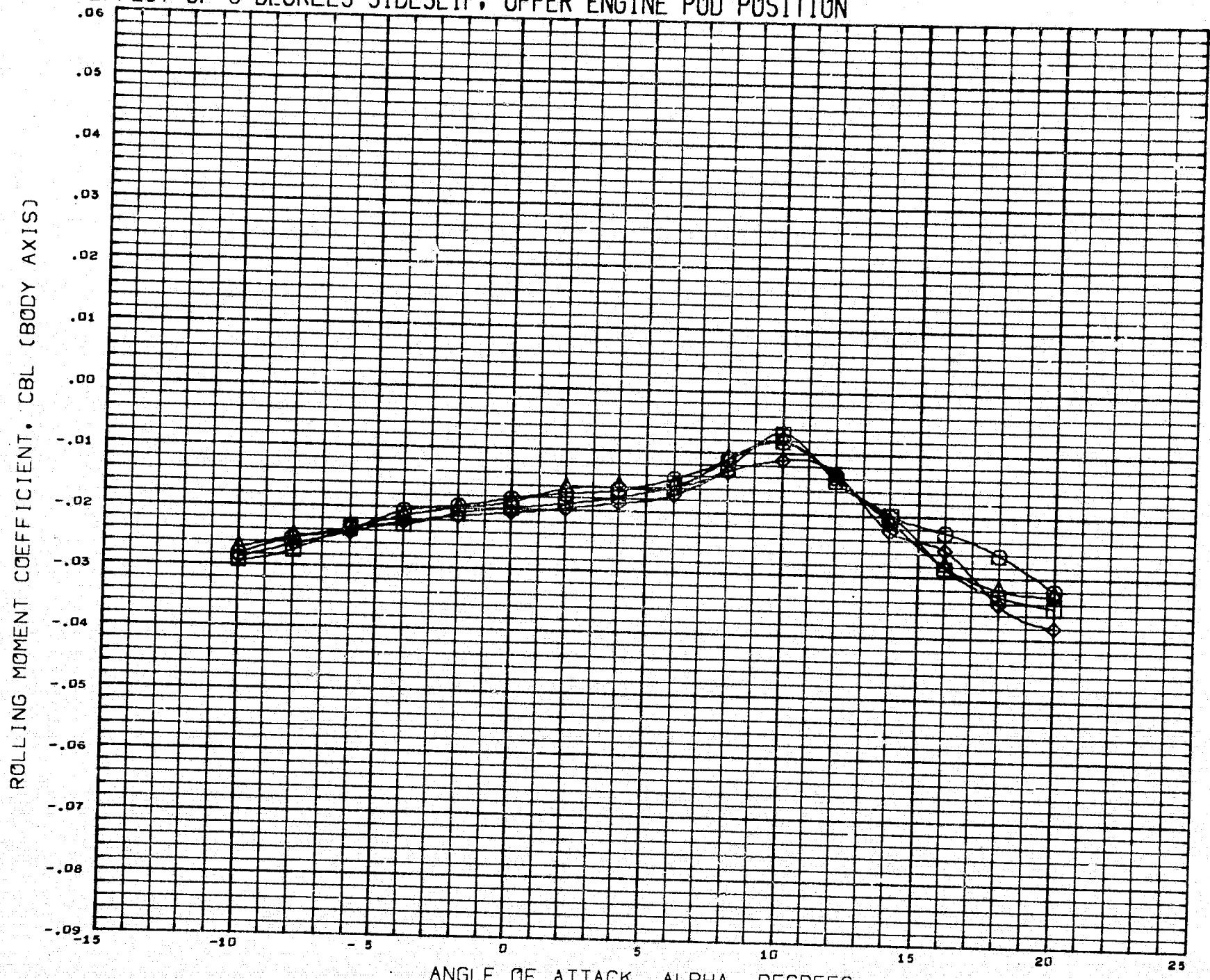
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3807	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB48)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB53)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB54)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2

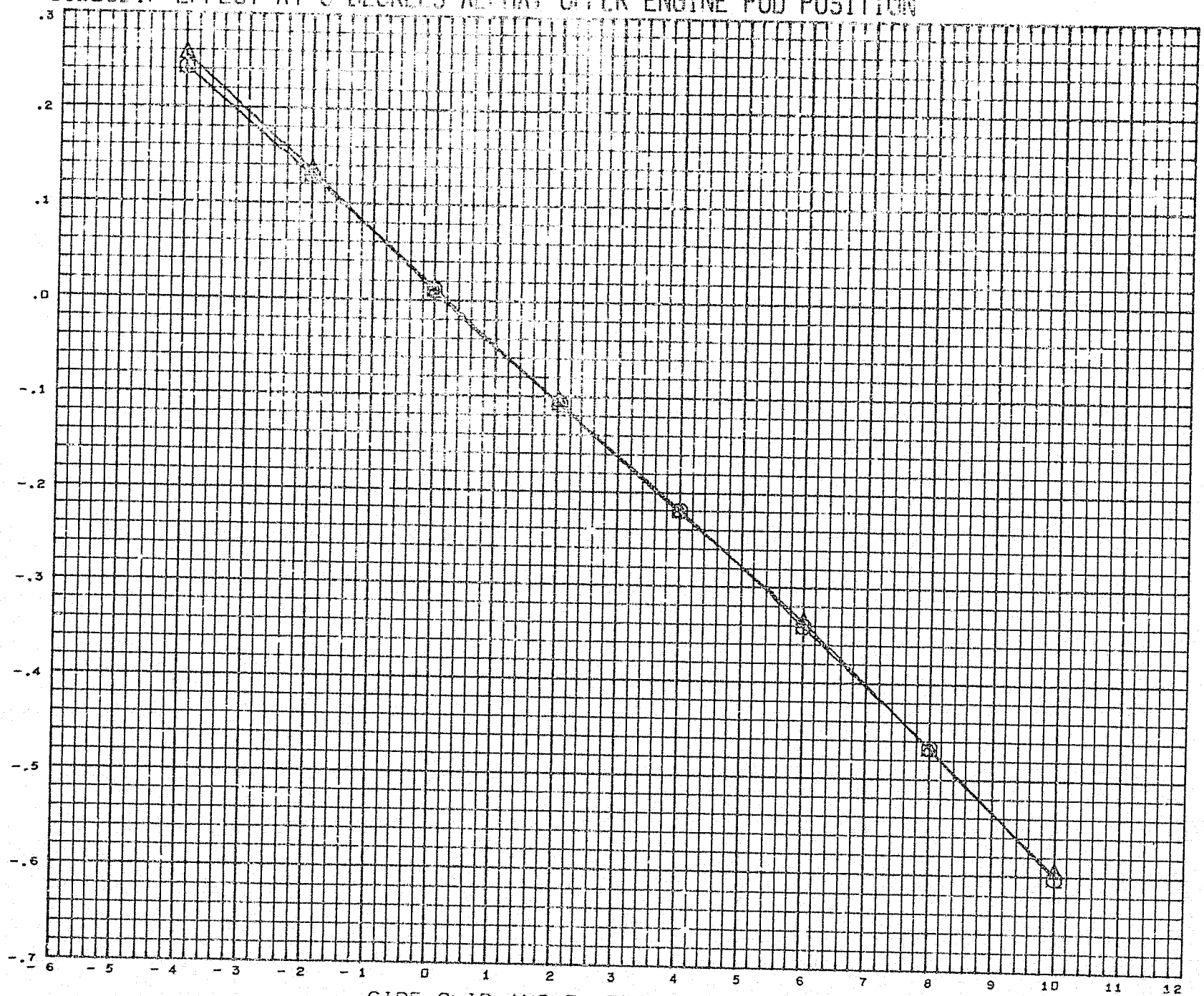
MACH 0.260

RHOB	RHIB	PE/PO	BETA
1.000	1.000	0.990	5.000
1.000	1.000	3.400	5.000
0.000	1.000	3.400	5.000
1.000	0.000	3.400	5.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT 6 DEGREES ALPHA, OUTER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	6.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA HIST. CODE *E

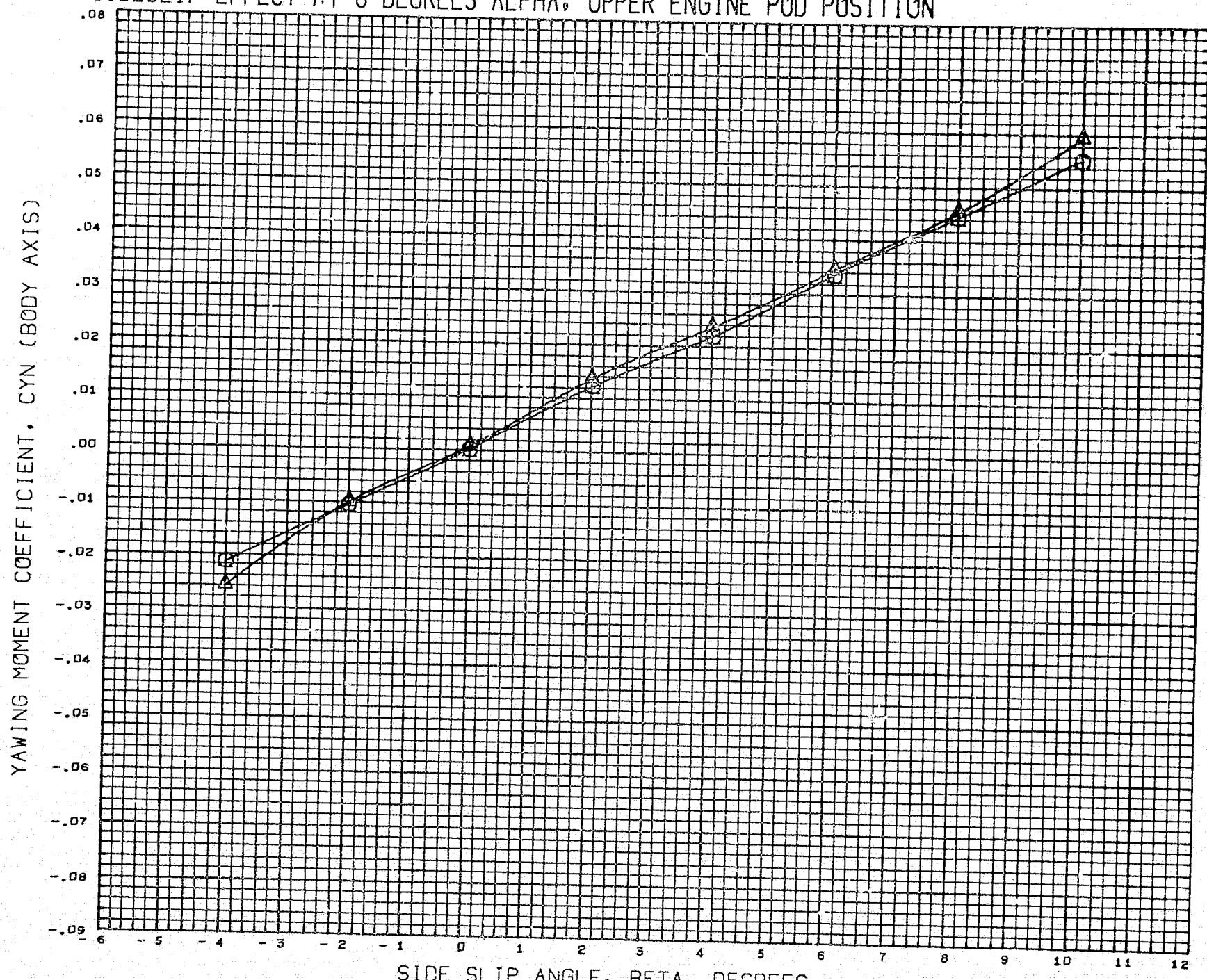
DATA SOURCE

DATASET	PE/PO	DATASET	PE/PO
CCDB49	0.990	CCDB50	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	6.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

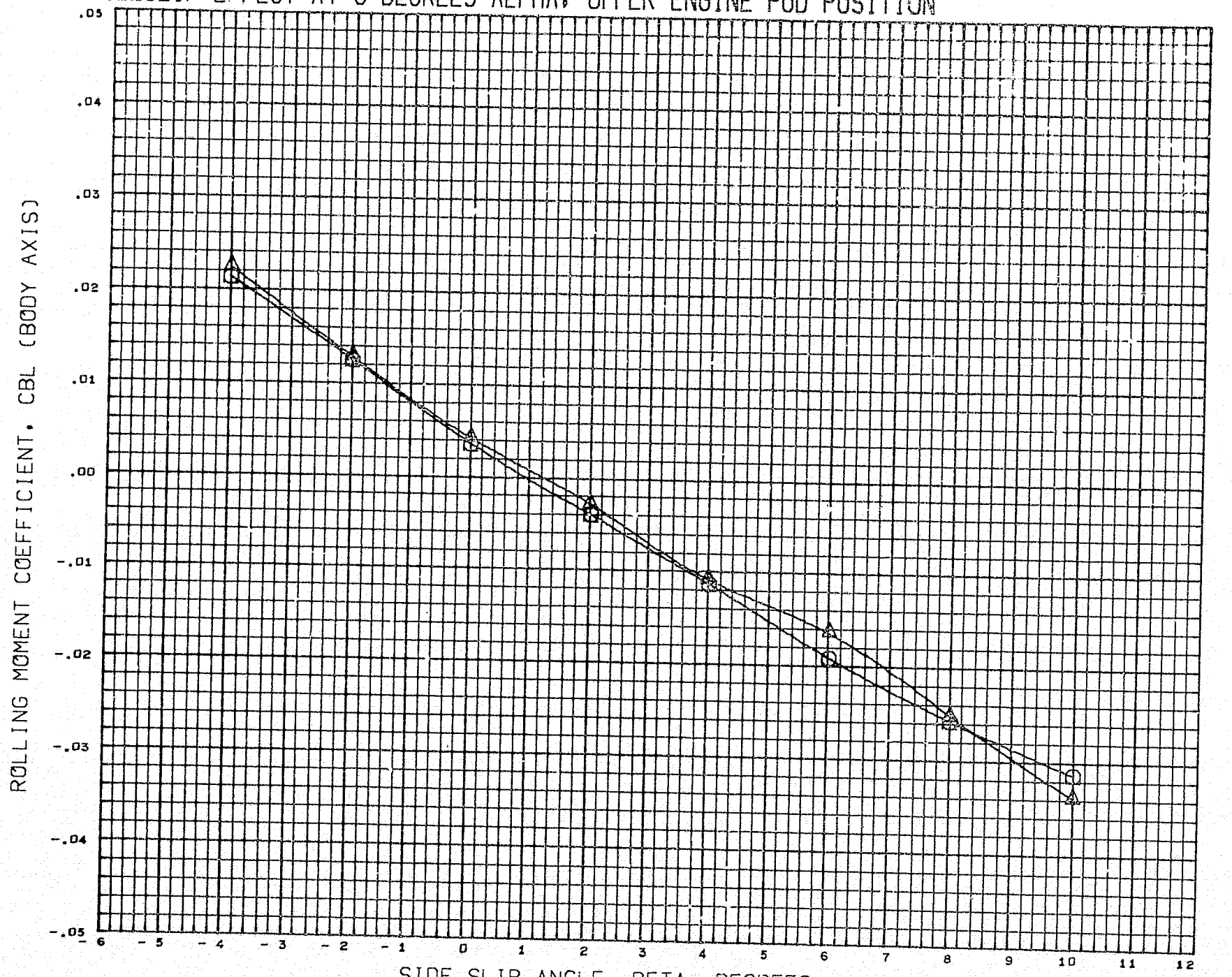
DATASET	PE/PO	DATASET	PE/PO
CCDB49	0.990	CCDB50	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE ÷E

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	6.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

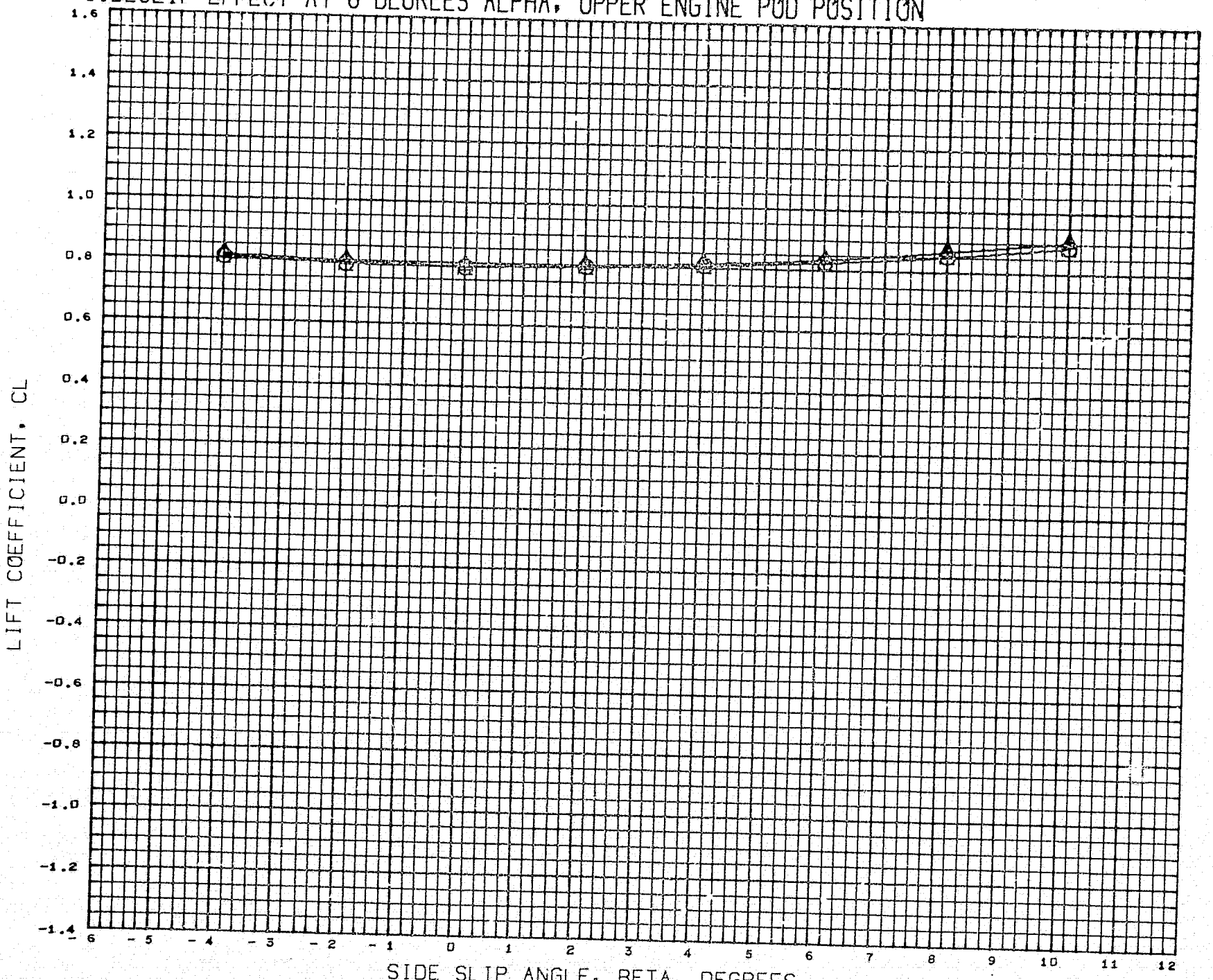
DATASET	PE/PO	DATASET	PE/PO
CCDB49	0.990	CCDB50	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9450	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION



SYMBOL	FE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	6.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

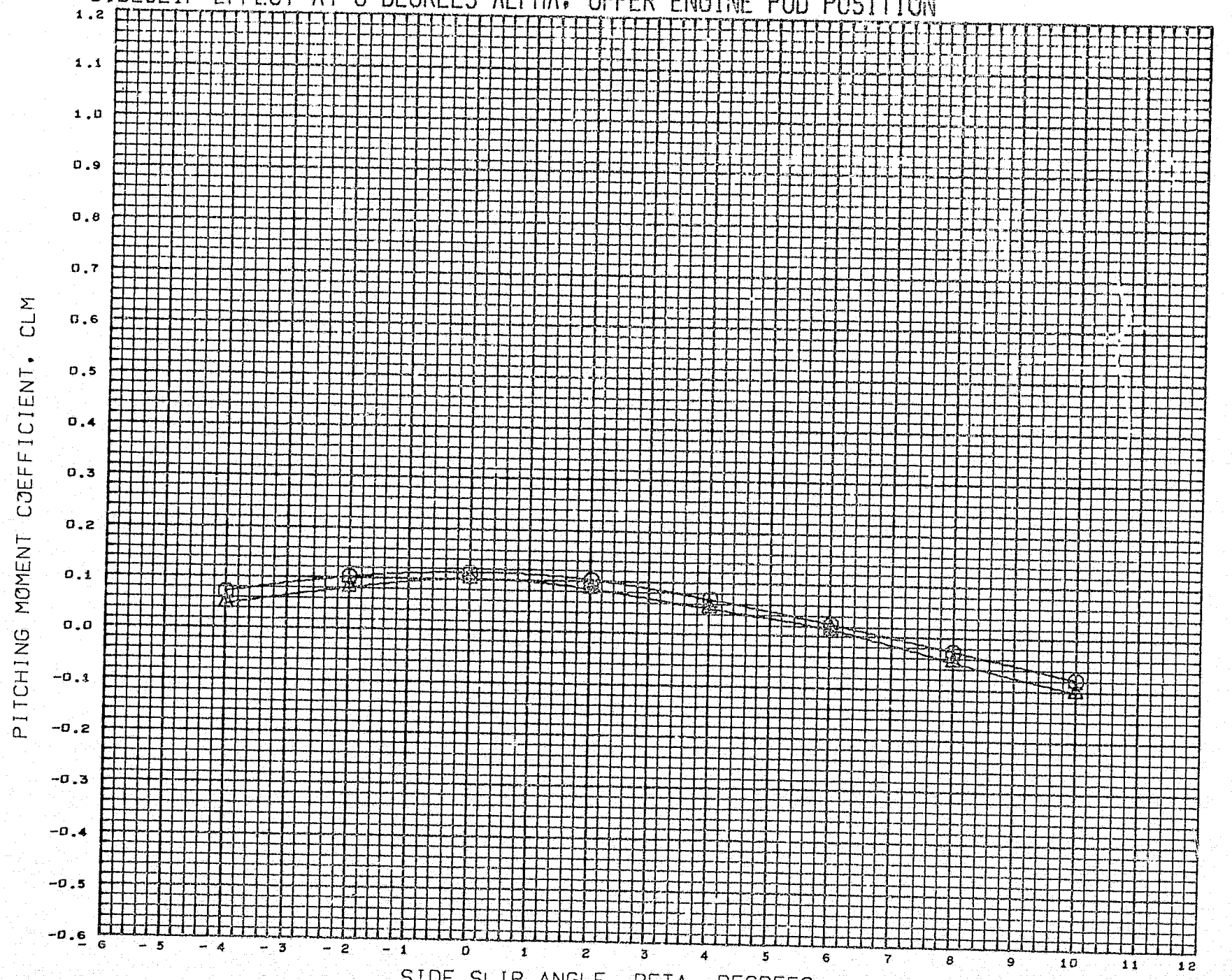
DATASET	FE/PO	DATASET	FE/PO
CCDB49	0.990	CCDB50	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION

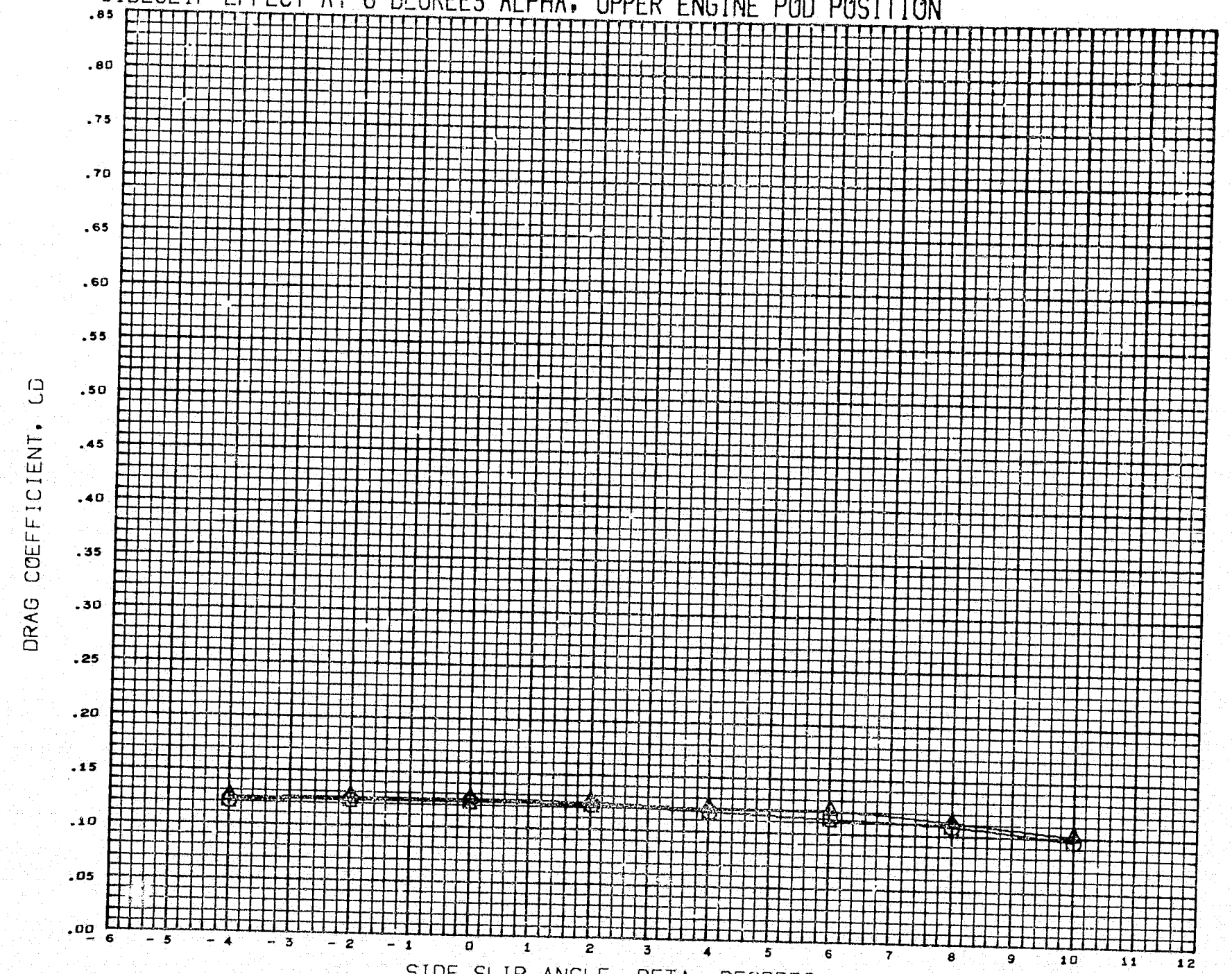


SYMBOL	PE/PO	PARAMETRIC VALUES				DATA SOURCE			
◇	0.990	MACH	0.260	ALPHA	6.000	DATASET	PE/PO	DATASET	PE/PO
△	3.400	HTAIL	- 5.000	ELEVTR	0.000	CCDB49	0.990	CCDB50	3.400
		FLAP	0.000	RHOB	1.000				
		RHIB	1.000						

DATA HIST. CODE #E

REFERENCE INFORMATION		
REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	3.400

PARAMETRIC VALUES

MACH	0.260	ALPHA	6.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA HIST. CODE *E

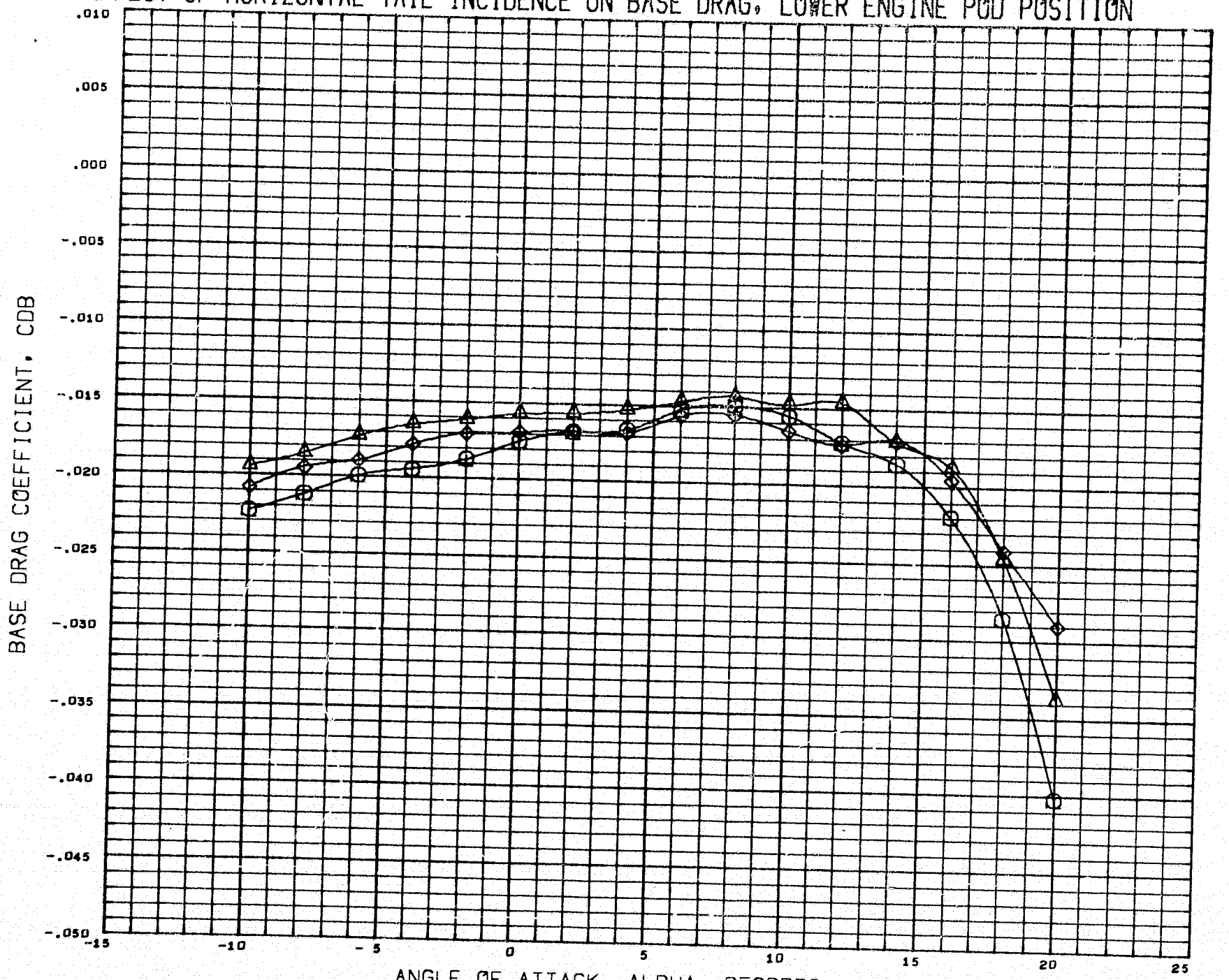
DATA SOURCE

DATASET	PE/PO	DATASET	PE/PO
CCDB49	0.990	CCDB50	3.400

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, LOWER ENGINE POD POSITION



SYMBOL	HTAIL
○	0.000
△	- 5.000
◇	- 10.000

PARAMETRIC VALUES

MACH	0.260	BETA	0.000		
ELEVTR	0.000	FLAP	0.000		
PE/PO	0.990	RHOB	1.000		
RHIB	1.000				

DATA HIST. CODE *E

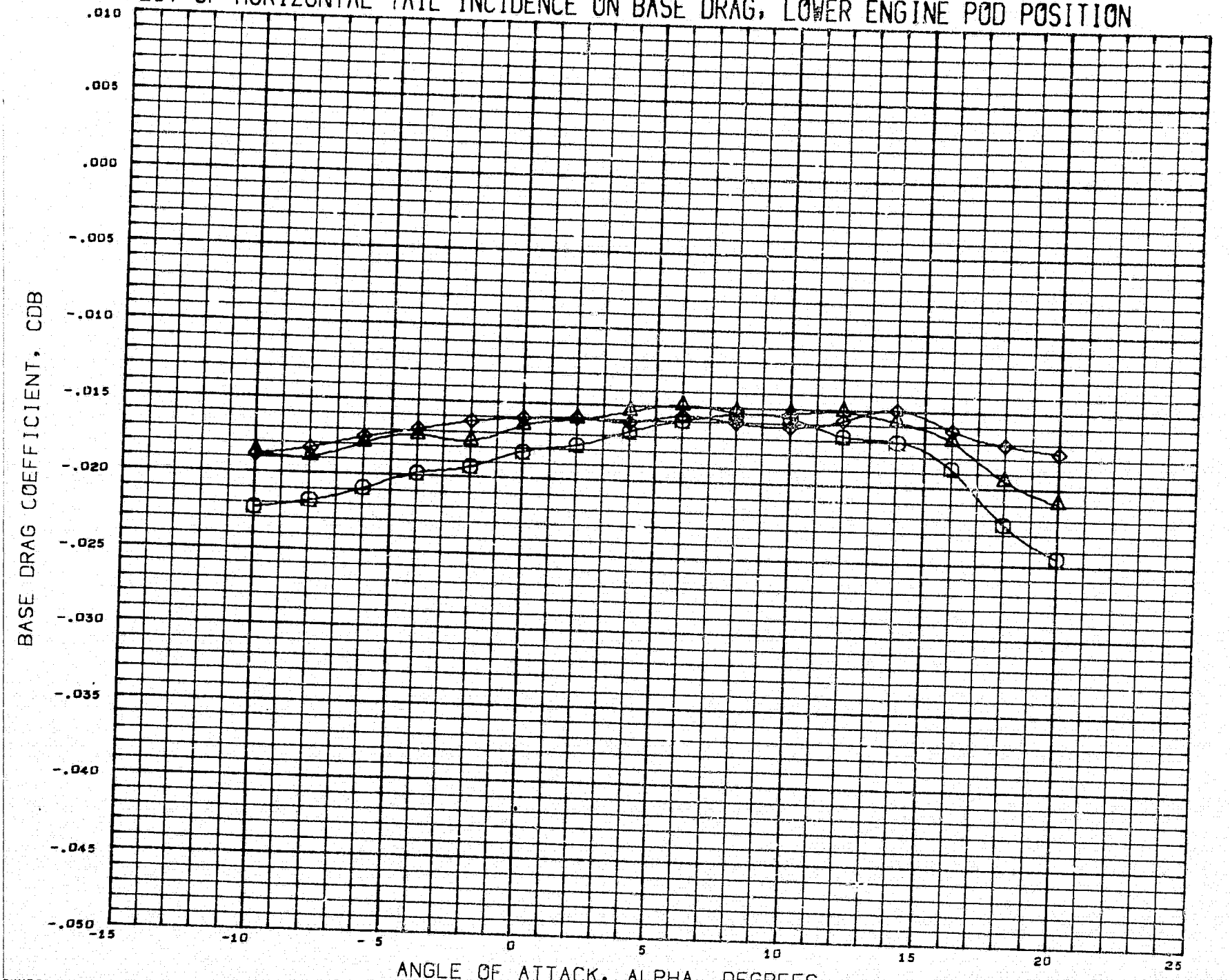
DATA SOURCE

DATASET	HTAIL	DATASET	HTAIL
CCDB24	0.000	CCDB01	- 5.000
CCDB26	- 10.000		

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, LOWER ENGINE POD POSITION



SYMBOL	HTAIL
○	0.000
△	- 5.000
◇	- 10.000

PARAMETRIC VALUES

MACH	0.260	BETA	0.000	DATASET	CCDB25
ELEVTR	0.000	FLAP	0.000	DATASET	CCDB27
PE/PO	3.400	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

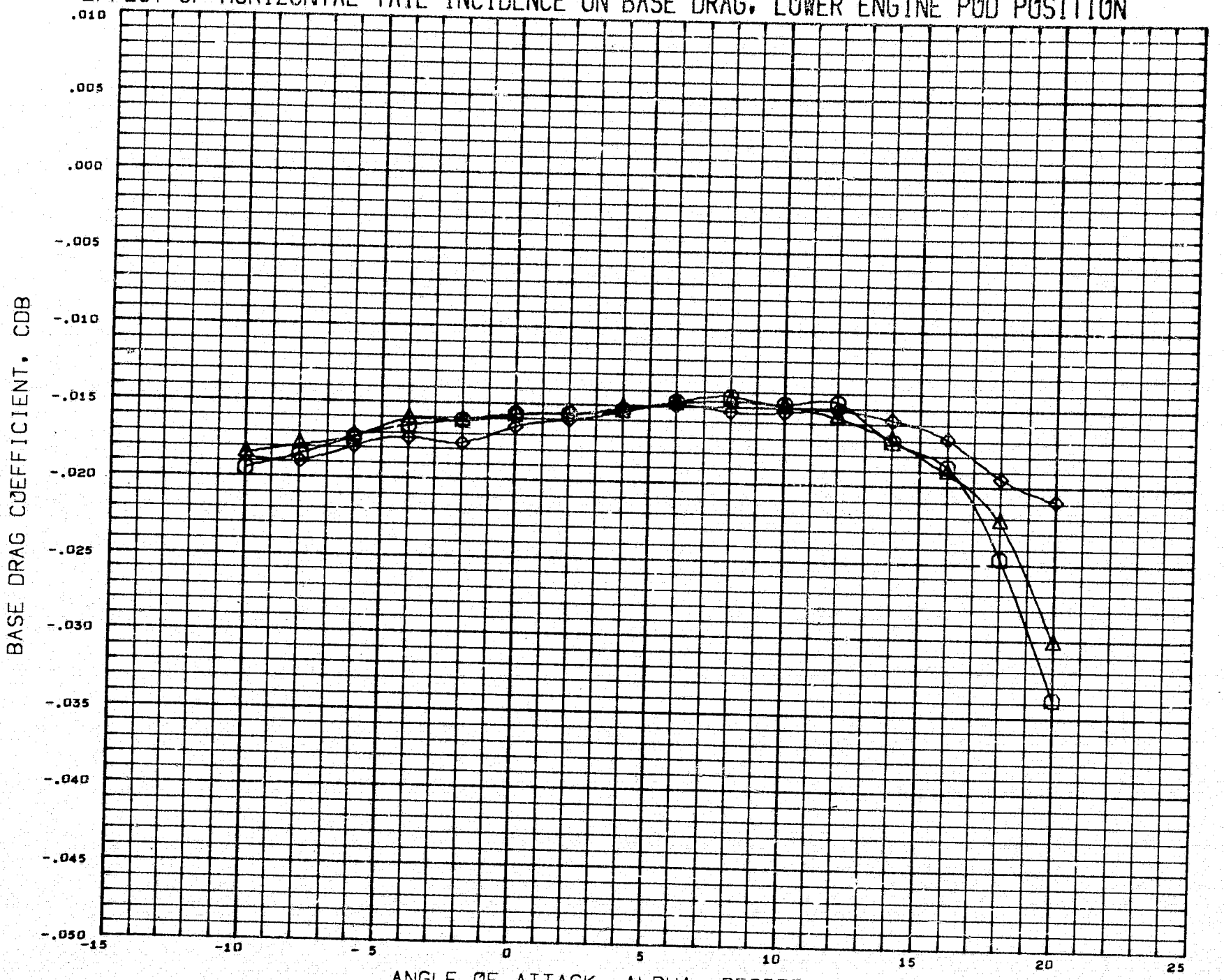
HTAIL	0.000	HTAIL	- 5.000
HTAIL	- 10.000		

DATA HIST. CODE *E

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, LOWER ENGINE POD POSITION



SYMBOL	PE/PO
○	0.990
△	1.100
◇	3.400

PARAMETRIC VALUES

MACH	0.260	BETA	0.000		
HTAIL	- 5.000	ELEVTR	0.000		
FLAP	0.000	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

DATASET	PE/PO	DATASET	PE/PO
CCDB01	0.990	CCDB02	1.100
CCDB03	3.400		

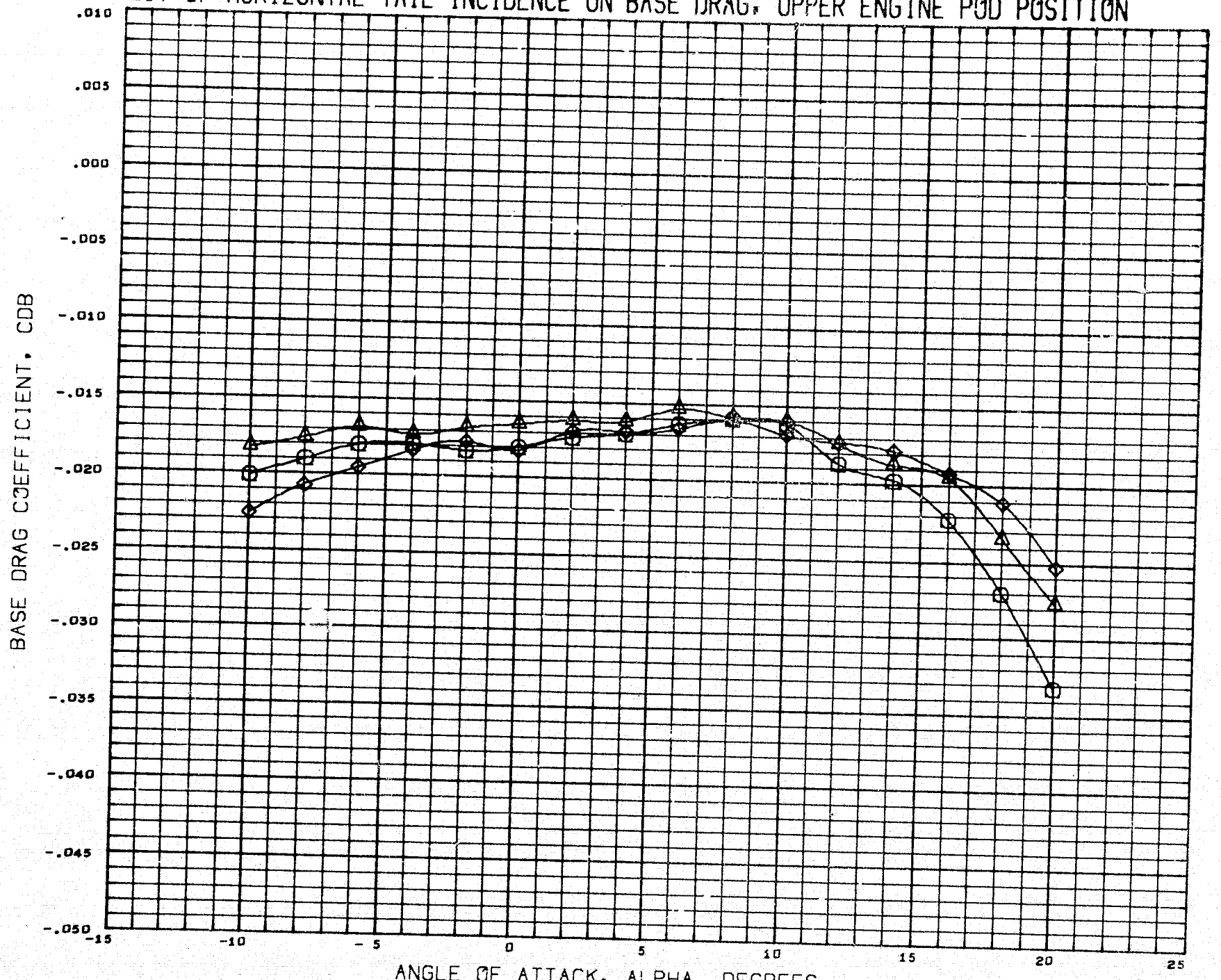
REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN.
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

4.0 PC 01 LSWT 237 B4W2V1H1P4 (CCDB01) 11 MAY 71 PAGE 348

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, UPPER ENGINE POD POSITION



SYMBOL	HTAIL
○	0.000
△	- 5.000
◇	- 10.000

PARAMETRIC VALUES

MACH	0.260	BETA	0.000		
ELEVTR	0.000	FLAP	0.000		
PE/PO	0.990	RHOB	1.000		
RHIB	1.000				

DATA SOURCE

DATASET	HTAIL	DATASET	HTAIL
CCDB62	0.000	CCDB44	- 5.000
CCDB64	- 10.000		

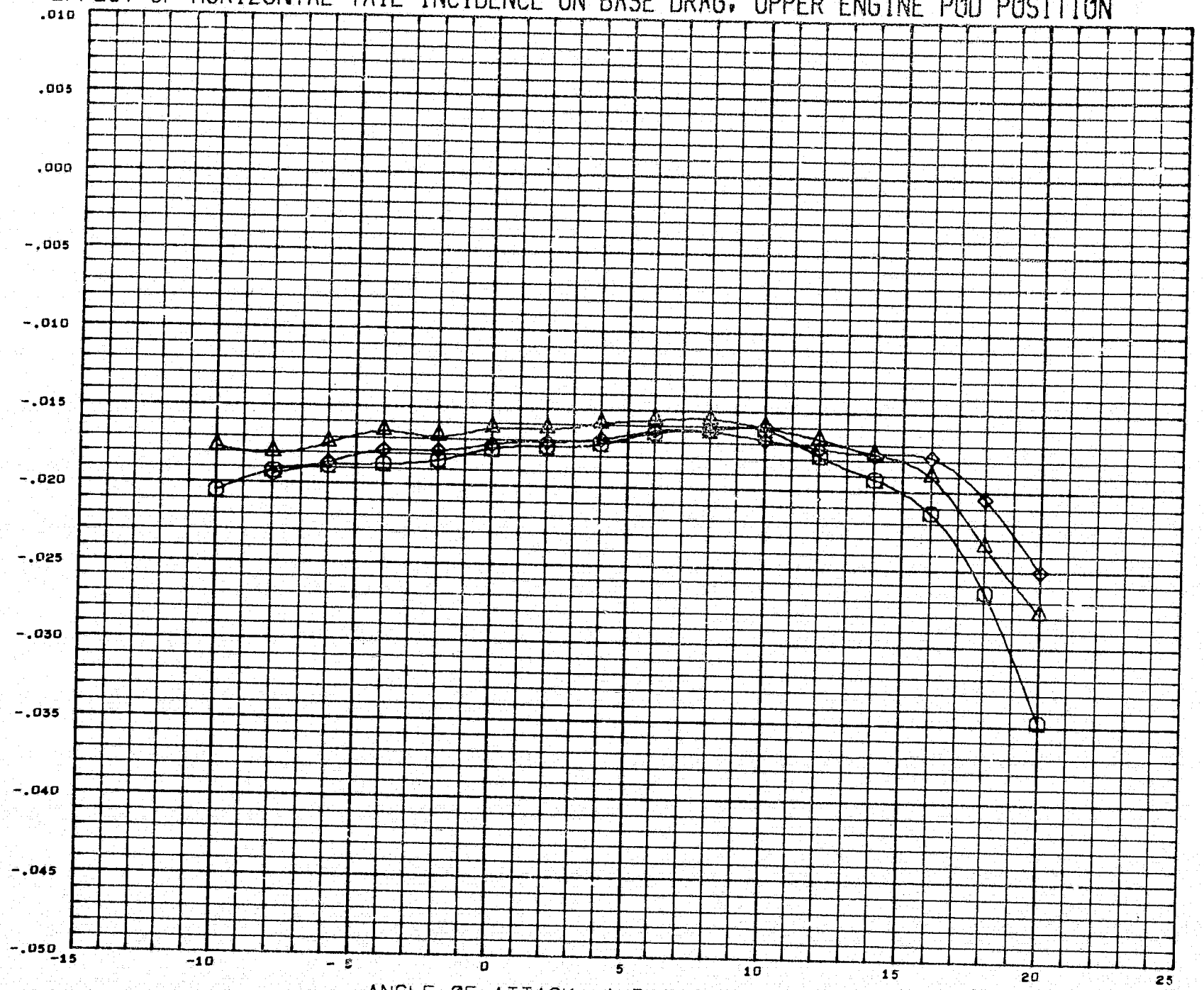
REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

4.0 PC 01 LSWT 237 B4W2V1H1P2 (CCDB62) 11 MAY 71 PAGE 349

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, UPPER ENGINE POD POSITION



SYMBOL	HTAIL
○	0.000
△	- 5.000
◇	- 10.000

PARAMETRIC VALUES

MACH	0.260	BETA	0.000
ELEVTR	0.000	FLAP	0.000
PE/PO	3.400	RHOB	1.000
RHIB	1.000		

DATA HIST. CODE *E

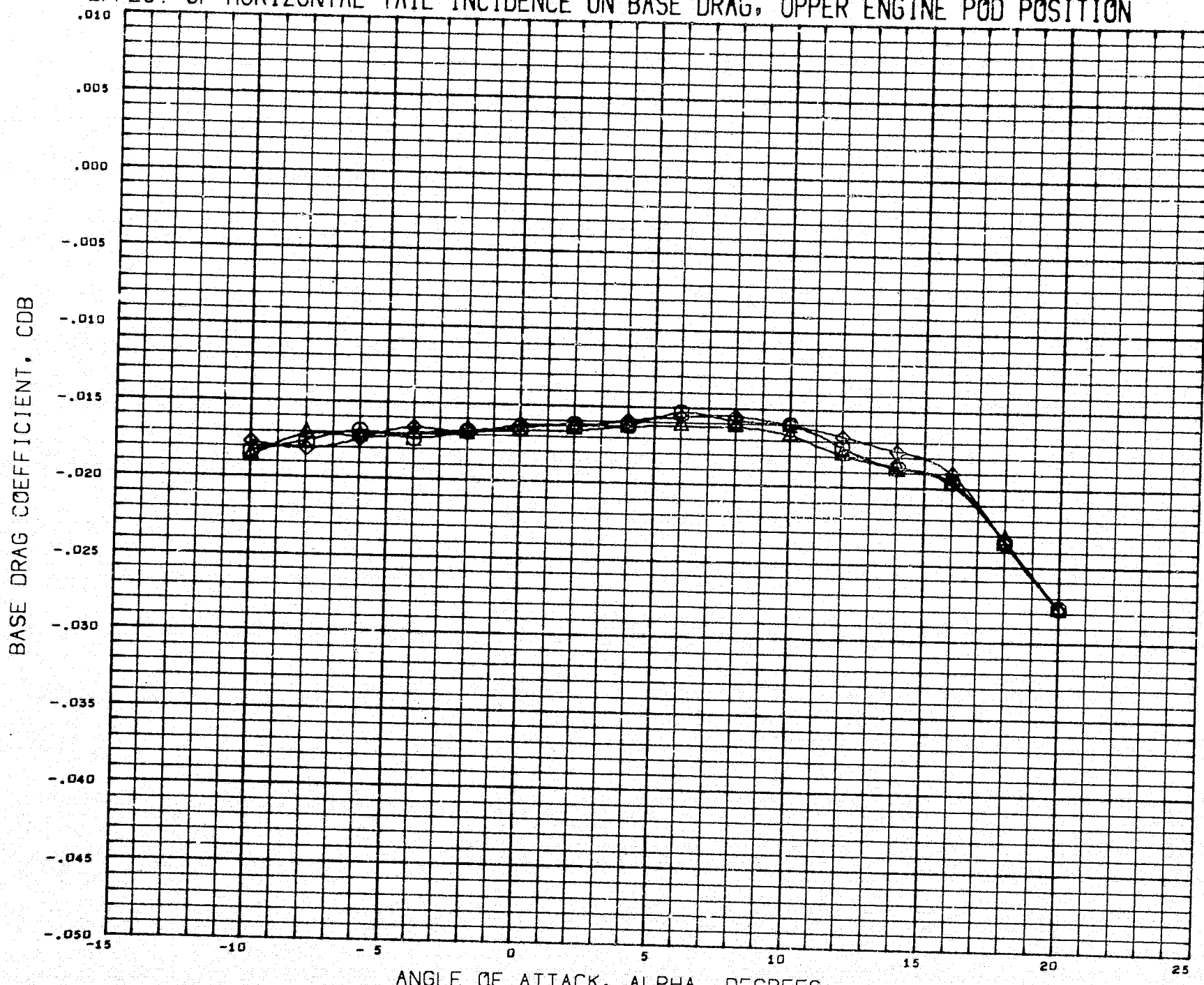
DATA SOURCE

DATASET	HTAIL	DATASET	HTAIL
CCDB63	0.000	CCDB46	- 5.000
CCDB65	- 10.000		

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, UPPER ENGINE POD POSITION



SYMBOL	FE/PO
○	0.990
△	1.100
◇	3.400

PARAMETRIC VALUES

MACH	0.260	BETA	0.000	DATASET	FE/PO
HTAIL	- 5.000	ELEVTR	0.000	CCDB44	0.990
FLAP	0.000	RHOB	1.000	CCDB46	3.400
RHIB	1.000				

DATA SOURCE

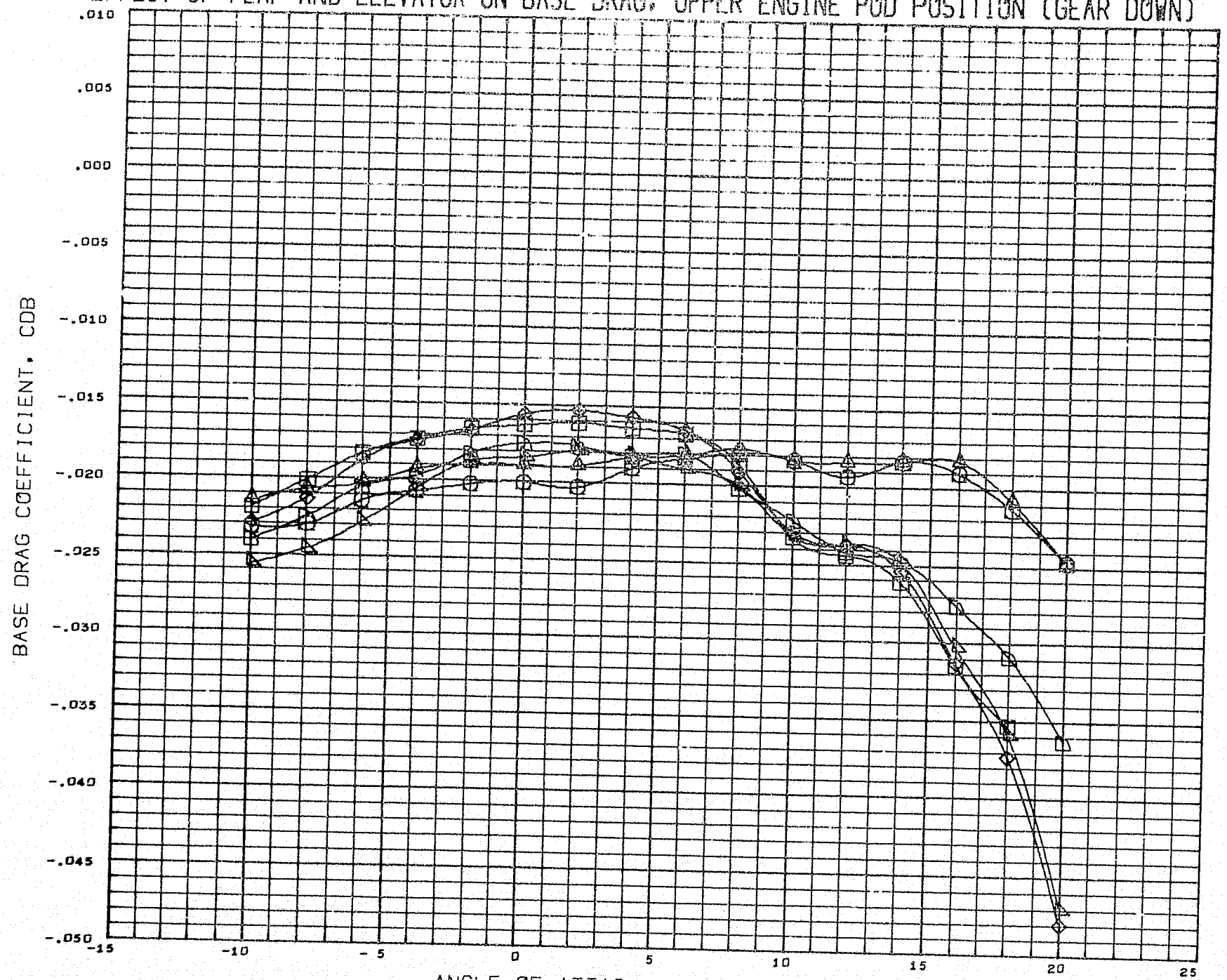
DATASET	FE/PO
CCDB45	1.100

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

DATA HIST. CODE *E

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, UPPER ENGINE POD POSITION (GEAR DOWN)



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB57)	○	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB58)	△	4.0 PC 01 LSWT 237 B4W2V1H1P2
(CCDB34)	◇	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB35)	□	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB36)	▽	4.0 PC 01 LSWT 237 B4W2V1H1P2F26
(CCDB37)	⬠	4.0 PC 01 LSWT 237 B4W2V1H1P2F26

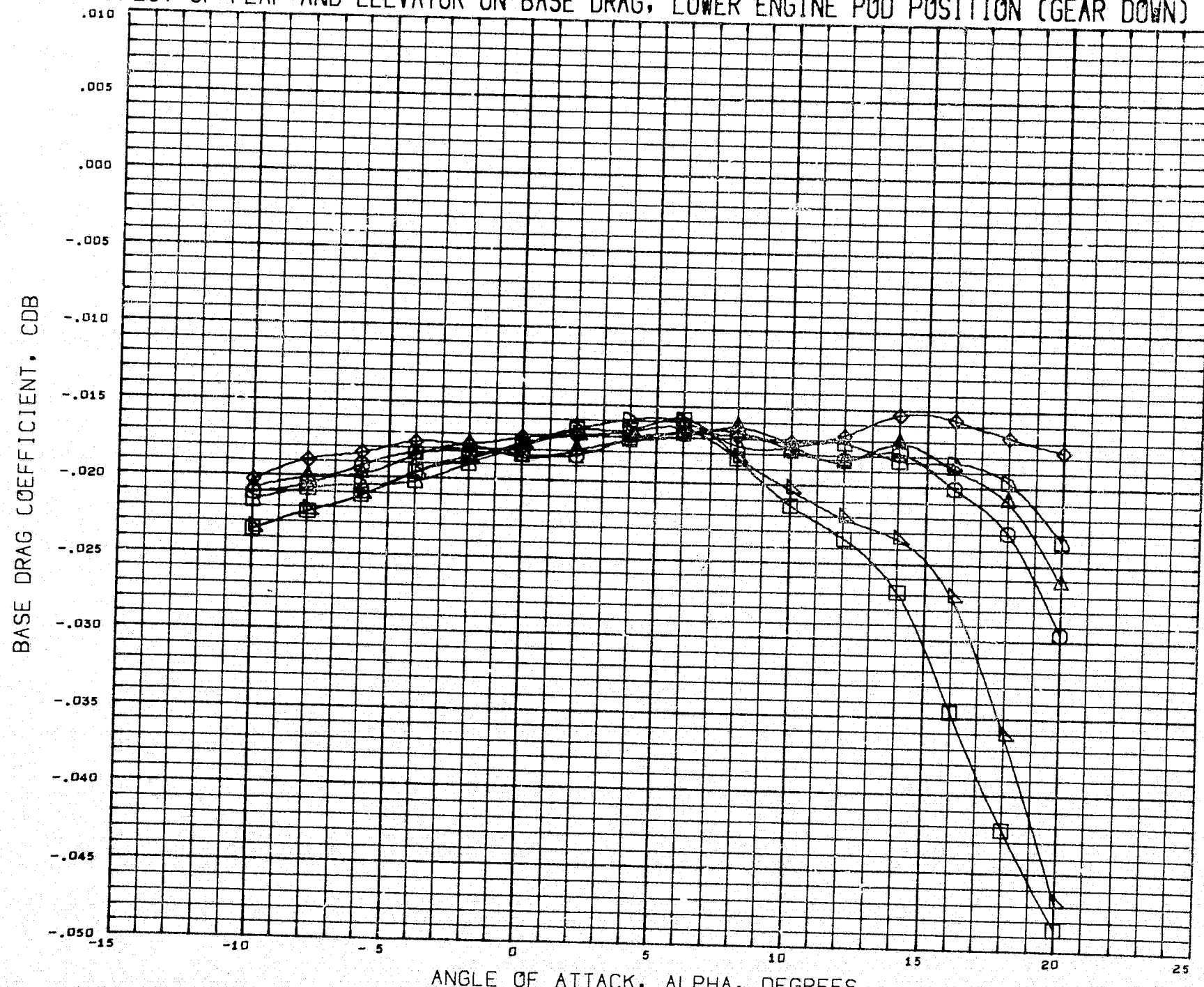
MACH 0.260

FLAP	ELEVTR	PE/PO	BETA
0.000	-10.000	0.990	0.000
0.000	-10.000	3.400	0.000
45.000	0.000	0.990	0.000
45.000	0.000	3.400	0.000
45.000	-10.000	0.990	0.000
45.000	-10.000	3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, LOWER ENGINE POD POSITION (GEAR DOWN)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(CCDB17)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB18)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB19)	4.0 PC 01 LSWT 237 B4W2V1H1P4
(CCDB28)	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB29)	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB30)	4.0 PC 01 LSWT 237 B4W2V1H1P4F2G

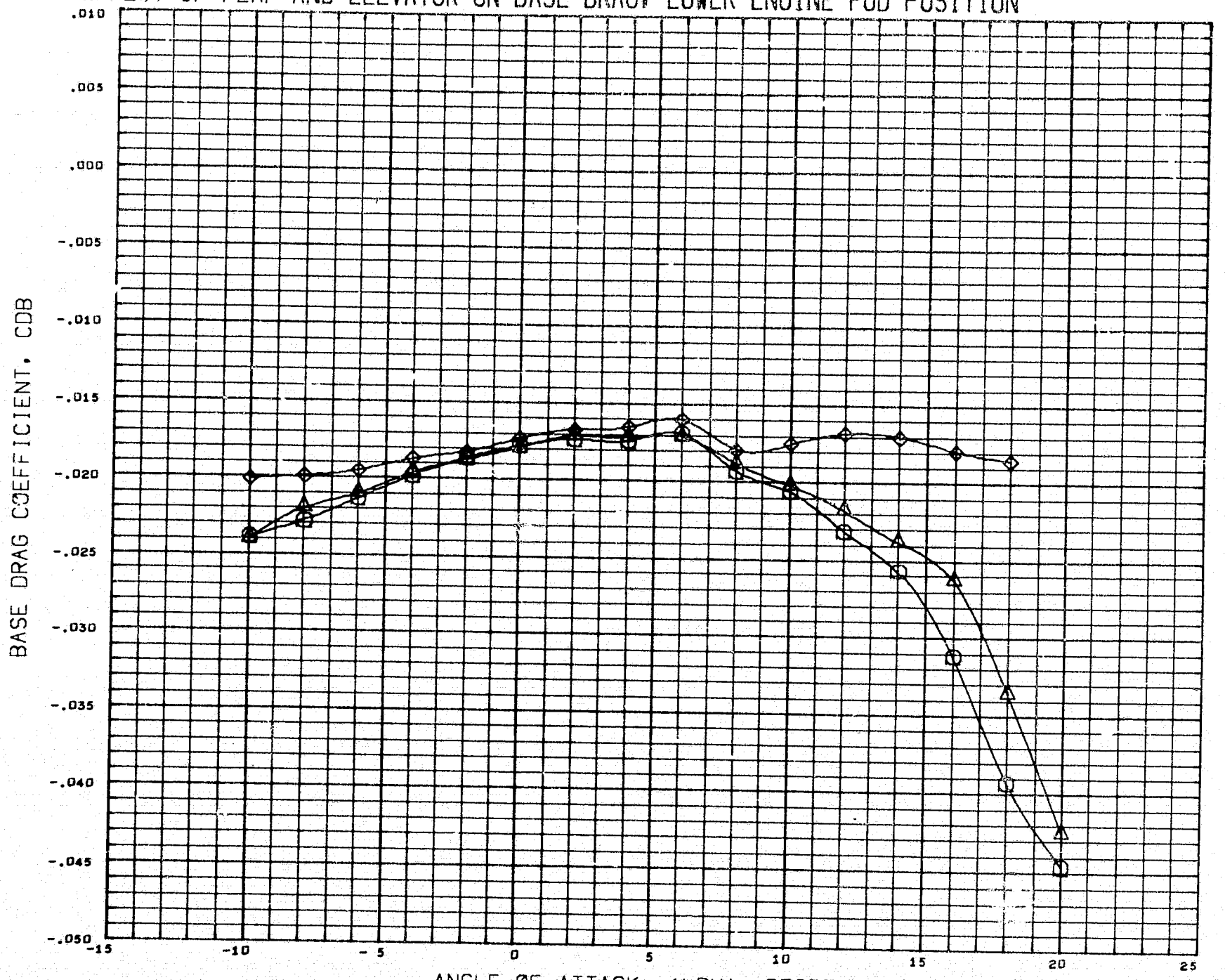
MACH 0.260

PE/PO	ELEVTR	FLAP	BETA
0.990	-10.000	0.000	0.000
1.100	-10.000	0.000	0.000
3.400	-10.000	0.000	0.000
0.990	0.000	45.000	0.000
1.100	0.000	45.000	0.000
3.400	0.000	45.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9300	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, LOWER ENGINE POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB31)	○	4.0 FC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB32)	△	4.0 FC 01 LSWT 237 B4W2V1H1P4F2G
(CCDB33)	◇	4.0 FC 01 LSWT 237 B4W2V1H1P4F2G

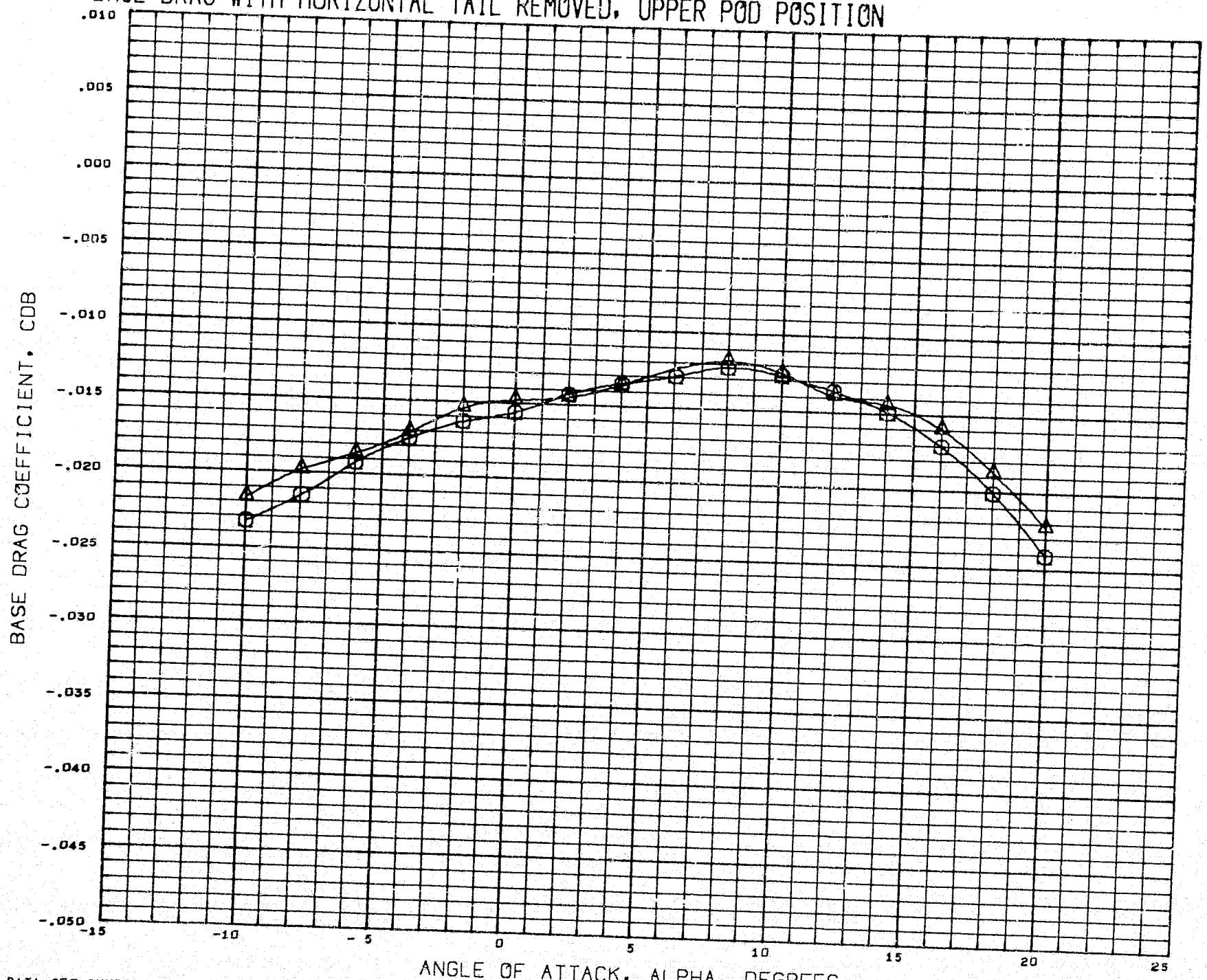
MACH 0.260

FLAP	ELEVTR	FE/PO	BETA
45.000	-10.000	0.990	0.000
45.000	-10.000	1.100	0.000
45.000	-10.000	3.400	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

BASE DRAG WITH HORIZONTAL TAIL REMOVED, UPPER POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB41)		4.0 PC 01 LSWT 237 B4W2V1P2
(CCDB42)		4.0 PC 01 LSWT 237 B4W2V1P2

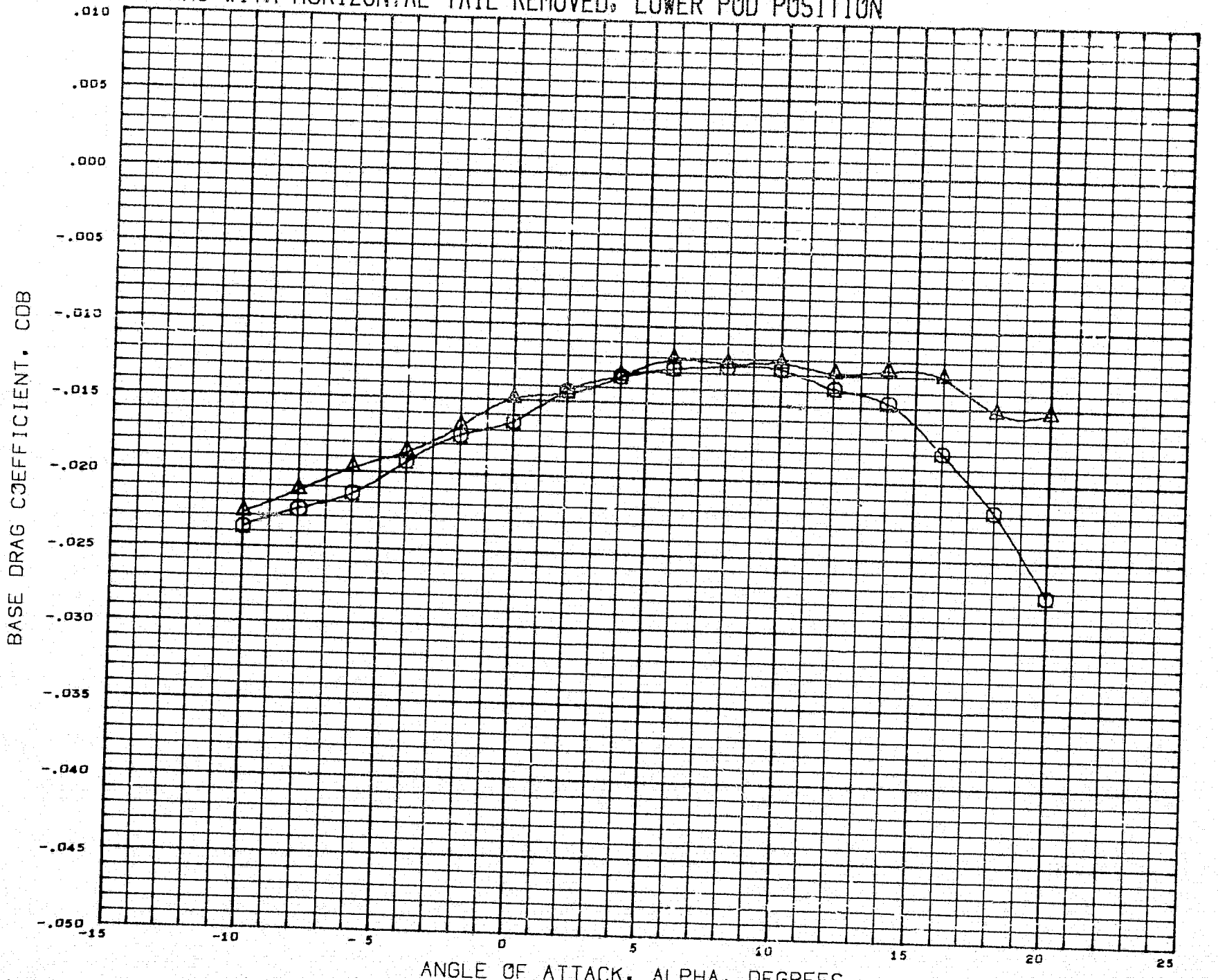
MACH 0.260

PE/PO	BETA	FLAP
0.990	0.000	0.000
3.400	0.000	0.000

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

BASE DRAG WITH HORIZONTAL TAIL REMOVED, LOWER POD POSITION



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(CCDB39)	○	4.0 PC 01 LSWT 237 B4W2V1F4
(CCDB40)	△	4.0 PC 01 LSWT 237 B4W2V1F4

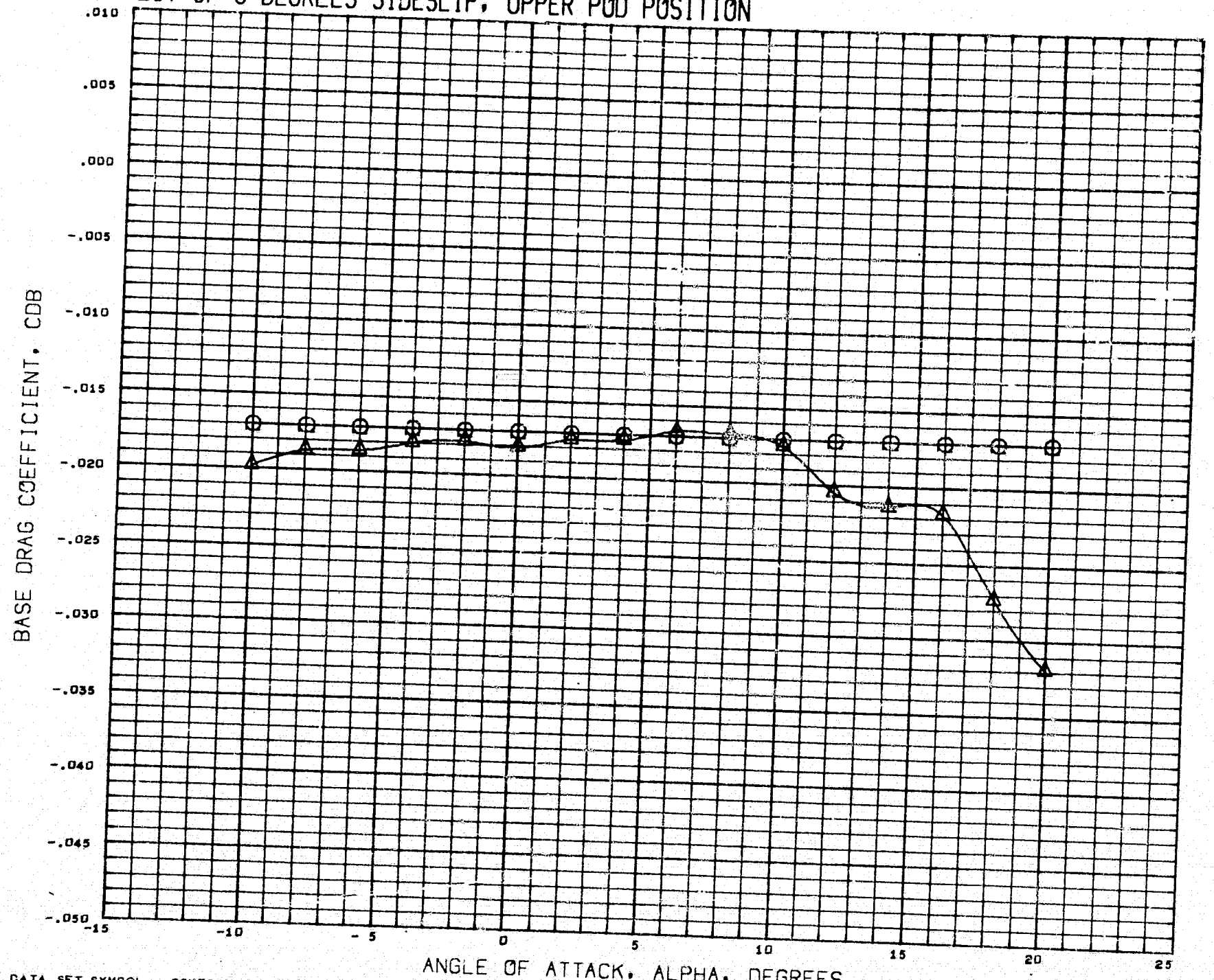
PE/PO	BETA	FLAP
0.990	0.000	0.000
3.400	0.000	0.000

MACH 0.260

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER POD POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CCDB47)	○	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB48)	△	4.0 FC 01 LSWT 237 B4W2V1H1F2

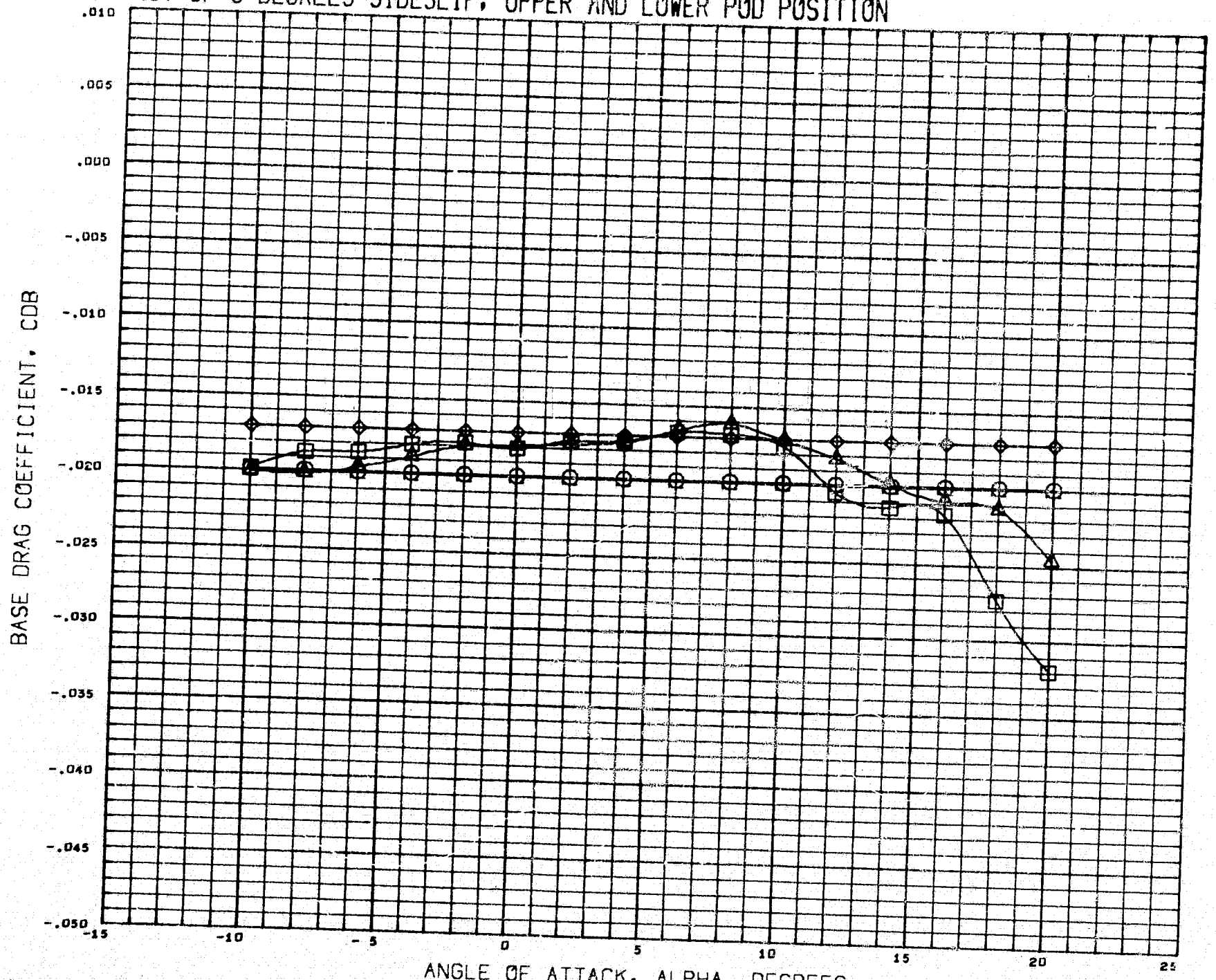
PE/PO	HTAIL	BETA	ELEVTR
0.990	-5.000	5.000	0.000
3.400	-5.000	5.000	0.000

MACH 0.260

REFERENCE INFORMATION

REFS	437.7704	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9430	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

EFFECT OF 5 DEGREES SIDESLIP, UPPER AND LOWER POD POSITION



DATA SET SYMBOL		CONFIGURATION DESCRIPTION
(CCDB04)	○	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB05)	△	4.0 FC 01 LSWT 237 B4W2V1H1F4
(CCDB47)	◇	4.0 FC 01 LSWT 237 B4W2V1H1F2
(CCDB48)	□	4.0 FC 01 LSWT 237 B4W2V1H1F2

MACH 0.260

PE/PO	HTAIL	BETA	ELEVTR
0.990	-5.000	5.000	0.000
3.400	-5.000	5.000	0.000
0.990	-5.000	5.000	0.000
3.400	-5.000	5.000	0.000

REFERENCE INFORMATION

REFS	437.7794	SQ.IN.
REFL	8.5100	IN.
REFB	55.3800	IN.
XMRP	37.9400	IN
YMRP	0.0000	IN.
ZMRP	12.0000	IN.
SCALE	4.0000	PCT.

APPENDIX A

COMPREHENSIVE DATA PLOT INDEX

NOTE:

See page 25 for Summary Data Plot Index

DATA PLOT INDEX

DATA REPEATIBILITY

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCD040 BCD044

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	1	1
CLM	ALPHA	2	2
CY	ALPHA	3	3
CYN	ALPHA	4	4
CBL	ALPHA	5	5

DATASETS PLOTTED:
BCD040 BCD044

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	6	6

DATA REPEATIBILITY

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA04 BCDA05

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	7	7
CLM	ALPHA	8	8
CY	ALPHA	9	9
CYN	ALPHA	10	10
CBL	ALPHA	11	11

DATASETS PLOTTED:
BCDA04 BCDA05

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	12	12

DATA PLOT INDEX

DATA REPEATIBILITY

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA20 BCDA30

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	13	13
CLM	ALPHA	14	14
CY	ALPHA	15	15
CYN	ALPHA	16	16
CBL	ALPHA	17	17

DATASETS PLOTTED:
DCDA20 BCDA30

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	18	18

BASIC LONGITUDINAL BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCD040 BCD010 BCD000

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	19	19
CLM	ALPHA	20	20

DATASETS PLOTTED:
DCDA04 BCD040 BCD010 BCD000

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	21	21
CL	CLM	22	22

DATA PLOT INDEX

BASIC LATERAL DIRECTIONAL BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA

DATASETS PLOTTED:
BCDA02 BCD042 BCD012 BCDUU2

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	BETA	23	23
CYN	BETA	24	24
CBL	BETA	25	25

DATASETS PLOTTED:
BCDA03 BCD043 BCD013 BCDUU3

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	BETA	26	26
CYN	BETA	27	27
CBL	BETA	28	28

BASIC LATERAL DIRECTIONAL BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD000 BCD001

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	29	29
CYN	ALPHA	30	30
CBL	ALPHA	31	31

DATA PLOT INDEX

BASIC LATERAL DIRECTIONAL BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD010 BCD011

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	32	32
CYN	ALPHA	33	33
CBL	ALPHA	34	34

DATASETS PLOTTED:
BCD040 BCD041

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	35	35
CYN	ALPHA	36	36
CBL	ALPHA	37	37

DATASETS PLOTTED:
DCDA04 BCDA01

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	38	38
CYN	ALPHA	39	39
CBL	ALPHA	40	40

BASIC LATERAL DIRECTIONAL BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
FCDA04 FCD040 FCD010 FCD000

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	41	41
DCYNDB	ALPHA	42	42
DCBLDB	ALPHA	43	43

DATA PLOT INDEX

WING FLAP EFFECTS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA4U	CL	ALPHA	44	44
BCDA4U	CLM	ALPHA	45	45

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA4U	CL	CLM	46	46
BCDA4U	CL	CD	47	47

WING FLAP EFFECTS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA04 DCDA24 DCDA20

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	48	48
CLM	ALPHA	49	49
L/D	ALPHA	50	50

DATASETS PLOTTED:
GCDA04 DCDA24 DCDA20

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	CD	51	51
CL	CLM	52	52

DATA PLOT INDEX

WING FLAP EFFECTS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCDA26 BCDA22

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	BETA	53	53
CYN	BETA	54	54
CBL	BETA	55	55

DATASETS PLOTTED:
GCDAU2 BCDA27 BCDA23

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	BETA	56	56
CYN	BETA	57	57
CBL	BETA	58	58

WING FLAP EFFECTS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
DCDA24 BCDA25

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	59	59
CYN	ALPHA	60	60
CBL	ALPHA	61	61

DATASETS PLOTTED:
DCDA20 BCDA21

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	62	62
CYN	ALPHA	63	63
CBL	ALPHA	64	64

DATA PLOT INDEX

WING FLAP EFFECTS

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
SCDA04 FCDA24 FCDA20

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	65	65
DCYNDB	ALPHA	66	66
DCBLDB	ALPHA	67	67

LANDING GEAR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA10 DCDA20

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	68	68
CLM	ALPHA	69	69
L/D	ALPHA	70	70

DATASETS PLOTTED:
BCDA10 DCDA20

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	71	71
CL	CLM	72	72

LANDING GEAR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA12 BCDA22

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	73	73
CYN	BETA	74	74
CBL	BETA	75	75

DATA PLOT INDEX

LANDING GEAR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCDA10 BCDA11

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	76	76
CYN	ALPHA	77	77
CRL	ALPHA	78	78

LANDING GEAR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
FCDA10 FCDA20

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	79	79
DCYNDB	ALPHA	80	80
DCRLDB	ALPHA	81	81

STABILATOR POWER - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
BCDA00	CL	ALPHA	82	82
BCDA00	CLM	ALPHA	83	83

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
BCDA00	CL	CLM	84	84
BCDA00	CL	CD	85	85

DATA PLOT INDEX

STABILATOR POWER - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
FCDA50 FCDA49

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
DCLDIT	ALPHA	86	86
CLM/IT	ALPHA	87	87

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD903 DCDA24 BCD902

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CL	ALPHA	88	88
CLM	ALPHA	89	89

DATASETS PLOTTED:
BCD903 DCDA24 BCD902

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CL	CLM	90	90
CL	CD	91	91

STABILATOR POWER, 25 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA24 FCD903

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
DCLDIT	ALPHA	92	92
CLM/IT	ALPHA	93	93

DATA PLOT INDEX

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD905 DCDA20 BCD904

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	94	94
CLM	ALPHA	95	95

DATASETS PLOTTED:
BCD905 DCDA20 BCD904

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	96	96
CL	CLM	97	97

STABILATOR POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA20 FCD905

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
DCLDIT	ALPHA	98	98
CLM/IT	ALPHA	99	99

ELEVATOR POWER - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
BCDA04	CL	ALPHA	100	100
BCDA04	CLM	ALPHA	101	101

ELEVATOR POWER - CLEAN WING

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, (FSDVAR)

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA04	CL	CLM	102	102
BCDA04	CL	CD	103	103

ELEVATOR POWER - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
HCDA56 HCDA57 HCDA58

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCL/DE	ALPHA	104	104
DCLMDE	ALPHA	105	105

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA24	CL	ALPHA	106	106
BCDA24	CLM	ALPHA	107	107

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA24	CL	CLM	108	108
BCDA24	CL	CD	109	109

ELEVATOR POWER, 25 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
HCDA71 HCDA70

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCL/DE	ALPHA	110	110
DCLMDE	ALPHA	111	111

DATA PLOT INDEX

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA20	CL	ALPHA	112	112
BCDA20	CLM	ALPHA	113	113

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA20	CL	CLM	114	114
BCDA20	CL	CD	115	115

ELEVATOR POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
HCDA68 HCDA69 HCDA67

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCL/DE	ALPHA	116	116
DCLMDE	ALPHA	117	117

RUDDER POWER

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
JCDA04 ECD906

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	118	118
CYN	ALPHA	119	119
CBL	ALPHA	120	120

RUDDER POWER

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
KCDA04

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
DCY/DR	ALPHA	121	121
DCYNDR	ALPHA	122	122
DCBLDR	ALPHA	123	123

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA04 BCD907

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	124	124
CLM	ALPHA	125	125
L/D	ALPHA	126	126

DATASETS PLOTTED:
GCDA04 BCD907

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	127	127
CYN	ALPHA	128	128
CRL	ALPHA	129	129

DATASETS PLOTTED:
GCDA04 BCD907

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	130	130
CL	CLM	131	131

DATA PLOT INDEX

SPOILER EFFECTIVENESS AS A DIRECT LIFT CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
UCDA20 BCD908

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	132	132
CLM	ALPHA	133	133
L/D	ALPHA	134	134

DATASETS PLOTTED:
UCDA20 BCD908

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	135	135
CYN	ALPHA	136	136
CBL	ALPHA	137	137

DATASETS PLOTTED:
UCDA20 BCD908

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	CD	138	138
CL	CLM	139	139

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
TCDA04 BCD909 BCD910

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	140	140
CYN	ALPHA	141	141
CBL	ALPHA	142	142

DATA PLOT INDEX

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE - SPOILER EXTENSION TO FULL SPAN

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCD910 BCD911

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	143	143
CYN	ALPHA	144	144
CBL	ALPHA	145	145

SPOILER EFFECTIVENESS AS A ROLL CONTROL DEVICE, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
SCDA20 BCD912 BCD913

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	146	146
CYN	ALPHA	147	147
CBL	ALPHA	148	148

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD910 BCD914

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	149	149
CYN	ALPHA	150	150
CBL	ALPHA	151	151

DATA PLOT INDEX

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS - CLEAN WING

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
SCDA04 FCD910

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	152	152
DCYNDB	ALPHA	153	153
DCBLDB	ALPHA	154	154

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD913 BCD915

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	155	155
CYN	ALPHA	156	156
CBL	ALPHA	157	157

SPOILER EFFECT ON LATERAL DIRECTIONAL AERO CHARACTERISTICS, 45 DEG. FLAP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
TCDA20 SCD913

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	158	158
DCYNDB	ALPHA	159	159
DCBLDB	ALPHA	160	160

DATA PLOT INDEX

AILERON POWER - CLEAN WING AND RCS PODS OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA04 BCDA97

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	161	161
CYN	ALPHA	162	162
CBL	ALPHA	163	163

AILERON POWER - CLEAN WING AND RCS PODS ON

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
GCDA95 BCDA96

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	164	164
CYN	ALPHA	165	165
CBL	ALPHA	166	166

AILERON POWER - CLEAN WING - RCS PODS ON AND OFF

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
FCDA95 YCDA04

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
DCY/DA	ALPHA	167	167
DCYNDA	ALPHA	168	168
DCBL.DA	ALPHA	169	169

DATA PLOT INDEX

AILERON POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
SCDA20 BCDA98

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	170	170
CYN	ALPHA	171	171
CBL	ALPHA	172	172

AILERON POWER, 45 DEGREE FLAP DEFLECTION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
KCDA20

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
DCY/DA	ALPHA	173	173
DCYNDA	ALPHA	174	174
DCBLDA	ALPHA	175	175

RCS POD EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCDA95

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	176	176
CLM	ALPHA	177	177
L/D	ALPHA	178	178

DATASETS PLOTTED:
DCDA04 BCDA95

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	179	179
CYN	ALPHA	180	180
CBL	ALPHA	181	181

DATA PLOT INDEX

RCS POD EFFECT

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:
DCDA04 BCDA95

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	182	182
CL	CLM	183	183

BODY FLAP EFFECT - NOTE, DATA MUST BE USED FOR INCREMENTS ONLY

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
BCD070	CL	ALPHA	184	184
BCD070	CLM	ALPHA	185	185
BCD070	L/D	ALPHA	186	186

DATASETS PLOTTED	DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
BCD070	CL	CLM	187	187
BCD070	CL	CD	188	188

ENGINE POD DUCT CHOKE EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
SCDA73 BCDA70

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	189	189
CLM	ALPHA	190	190
L/D	ALPHA	191	191

DATA PLOT INDEX

ENGINE POD DUCT CHOKE EFFECT

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:
SCDA73 BCDA70

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	192	192
CL	CLM	193	193

ENGINE POD DUCT CHOKE EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA75 BCDA71

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	194	194
CYN	ALPHA	195	195
CBL	ALPHA	196	196

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCDA74 BCDA80

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	197	197
CLM	ALPHA	198	198
L/D	ALPHA	199	199

DATASETS PLOTTED:
DCDA04 BCDA74 BCDA80

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	200	200
CL	CLM	201	201

DATA PLOT INDEX

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCD984 BCDA78 BCDA79

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	202	202
CLM	ALPHA	203	203
L/D	ALPHA	204	204

DATASETS PLOTTED:
DCD984 BCDA78 BCDA79

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	205	205
CL	CLM	206	206

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA02 BCDA77 BCDA82

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	207	207
CYN	BETA	208	208
CBL	BETA	209	209

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCDA76 BCDA77

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	210	210
CYN	BETA	211	211
CBL	BETA	212	212

DATA PLOT INDEX

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
SCDA74 BCDA75

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	213	213
CYN	ALPHA	214	214
CBL	ALPHA	215	215

DATASETS PLOTTED:
BCDA80 BCDA81

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	216	216
CYN	ALPHA	217	217
CBL	ALPHA	218	218

ENGINE POD LOCATION EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
FCDA04 FCDA74 FCDA80

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	219	219
DCYNDB	ALPHA	220	220
DCBLDB	ALPHA	221	221

DATA PLOT INDEX

SPEED BRAKE EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALF

DATASETS PLOTTED:
DCDA04 BCDA90 BCDA91

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	222	222
CLM	ALPHA	223	223
L/D	ALPHA	224	224

DATASETS PLOTTED:
DCDA04 BCDA90 BCDA91

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	225	225
CYN	ALPHA	226	226
CBL	ALPHA	227	227

DATASETS PLOTTED:
DCDA04 BCDA90 BCDA91

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	228	228
CL	CLM	229	229

WING COMPARISON

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCD04B BCD010 BCD01A

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	230	230
CLM	ALPHA	231	231
L/D	ALPHA	232	232

DATA PLOT INDEX

WING COMPARISON

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:
DCDA04 BCD04B BCD010 BCD01A

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	CD	233	233
CL	CLM	234	234

WING COMPARISON

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCDA02 BCD04D BCD012 BCD01C

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	235	235
CYN	BETA	236	236
CBL	BETA	237	237

DATASETS PLOTTED:
BCD04E BCD01D

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	238	238
CYN	BETA	239	239
CBL	BETA	240	240

DATA PLOT INDEX

WING COMPARISON

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
BCD04B BCD04C

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	241	241
CYN	ALPHA	242	242
CBL	ALPHA	243	243

DATASETS PLOTTED:
BCD01A BCD01B

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	244	244
CYN	ALPHA	245	245
CBL	ALPHA	246	246

WING COMPARISON

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
FCDA04 FCD04B FCD01C FCD01A

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CYBETA	ALPHA	247	247
DCYNDB	ALPHA	248	248
DCBLDB	ALPHA	249	249

DATA PLOT INDEX

WING STRUT EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA

DATASETS PLOTTED:
BCD080 BCD04A

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	250	250
CLM	ALPHA	251	251
L/D	ALPHA	252	252

DATASETS PLOTTED:
BCD080 BCD04A

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	253	253
CYN	ALPHA	254	254
CBL	ALPHA	255	255

DATASETS PLOTTED:
BCD080 BCD04A

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	CD	256	256
CL	CLM	257	257

DATA PLOT INDEX

WING-BODY CAVITY EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCD04A BCD04B

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	258	258
CLM	ALPHA	259	259
L/D	ALPHA	260	260

DATASETS PLOTTED:
BCD04A BCD04B

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	261	261
CYN	ALPHA	262	262
CBL	ALPHA	263	263

WING-BODY CAVITY EFFECT

DEPENDENT VARIABLE VS DEPENDENT VARIABLE, MULTIPLE DATASETS (FMDVAR)

DATASETS PLOTTED:
BCD04A BCD04B

DEPENDENT VARIABLE	DEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	CD	264	264
CL	CLM	265	265

BASE DRAG - REPEATABILITY

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
BCD040 BCD044

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	266	266

DATA PLOT INDEX

BASE DRAG - BASIC BUILDUP

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCD040 BCD010 BCD000

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CDB	ALPHA	267	267

BASE DRAG - EFFECTS OF YAW

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
DCDA04 BCDA01

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CDB	ALPHA	268	268

BASE DRAG - FLAP EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
JCDA04 BCDA10

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CDB	ALPHA	269	269

BASE DRAG - STABILATOR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
BCDA00	CDB	ALPHA	270	270

DATA PLOT INDEX

BASE DRAG - ELEVATOR EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, (FSALFA)

DATASETS PLOTTED	DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
BCDA04	CDB	ALPHA	271	271

BASE DRAG - ENGINE POD EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA

DATASETS PLOTTED:
DCDA04 BCDA74 BCDA80

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	272	272

BASE DRAG - SPEED BRAKE EFFECT

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
DCDA04 BCDA90 BCDA91

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	273	273

ELEVATOR POWER, LOWER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB01 CCDB02 CCDB03 CCDB17 CCDB18 CCDB19

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	274	274
CLM	ALPHA	275	275
CD	ALPHA	276	276

DATA PLOT INDEX

STABILATOR POWER, LOWER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB24 CCDB25 CCDB26 CCDB27 CCDB39 CCDB40

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	277	277
CLM	ALPHA	278	278
CD	ALPHA	279	279

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, LOWER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB01 CCDB10 CCDB13 CCDB17 CCDB20 CCDB21

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	280	280
CLM	ALPHA	281	281
CD	ALPHA	282	282

DATASETS PLOTTED:
CCDB01 CCDB10 CCDB13 CCDB17 CCDB20 CCDB21

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	283	283
CYN	ALPHA	284	284
CBL	ALPHA	285	285

DATA PLOT INDEX

ELEVATOR POWER, RH INBOARD ENGINE OUT, LOWER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB01 CCDB11 CCDB15 CCDB17 CCDB22 CCDB23

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	286	286
CLM	ALPHA	287	287
CD	ALPHA	288	288

DATASETS PLOTTED:
CCDB01 CCDB11 CCDB15 CCDB17 CCDB22 CCDB23

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CY	ALPHA	289	289
CYN	ALPHA	290	290
CBL	ALPHA	291	291

ELEVATOR POWER, LANDING CONFIGURATION (GEAR DOWN), LOWER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB28 CCDB29 CCDB30 CCDB31 CCDB32 CCDB33

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CL	ALPHA	292	292
CLM	ALPHA	293	293
CD	ALPHA	294	294

DATA PLOT INDEX

EFFECT OF 5 DEGREES SIDESLIP, LOWER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB04 CCDB05 CCDB14 CCDB16

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	295	295
CLM	ALPHA	296	296
CD	ALPHA	297	297

DATASETS PLOTTED:
CCDB04 CCDB05 CCDB14 CCDB16

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	298	298
CYN	ALPHA	299	299
CBL	ALPHA	300	300

SIDESLIP EFFECT AT ZERO ALPHA, LOWER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
CCDB07 CCDB08

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	301	301
CYN	BETA	302	302
CBL	BETA	303	303
CL	BETA	304	304
CLM	BETA	305	305
CD	BETA	306	306

DATA PLOT INDEX

ELEVATOR POWER, UPPER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB44 CCDB45 CCDB46 CCDB57 CCDB58

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	307	307
CLM	ALPHA	308	308
CD	ALPHA	309	309

STABILATOR POWER, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB62 CCDB63 CCDB64 CCDB65 CCDB41 CCDB42

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	310	310
CLM	ALPHA	311	311
CD	ALPHA	312	312

EFFECT OF RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB45 CCDB46 CCDB51 CCDB52 CCDB57 CCDB59

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	313	313
CLM	ALPHA	314	314
CD	ALPHA	315	315

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB45 CCDB46 CCDB51 CCDB52 CCDB57 CCDB59

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	316	316
CYN	ALPHA	317	317
CBL	ALPHA	318	318

DATA PLOT INDEX

ELEVATOR POWER, RH OUTBOARD ENGINE OUT, UPPER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB44 CCDB46 CCDB51 CCDB52 CCDB57 CCDB59

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	319	319
CLM	ALPHA	320	320
CD	ALPHA	321	321

DATASETS PLOTTED:
CCDB44 CCDB46 CCDB51 CCDB52 CCDB57 CCDB59

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	322	322
CYN	ALPHA	323	323
CBL	ALPHA	324	324

ELEVATOR POWER, RH INBOARD ENGINE OUT, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB44 CCDB55 CCDB56 CCDB57 CCDB60

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	325	325
CLM	ALPHA	326	326
CD	ALPHA	327	327

DATASETS PLOTTED:
CCDB44 CCDB55 CCDB56 CCDB57 CCDB60

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	328	328
CYN	ALPHA	329	329
CBL	ALPHA	330	330

DATA PLOT INDEX

ELEVATOR POWER, LANGING GEAR DOWN, UPPER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB34 CCDB35 CCDB36 CCDB37

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	331	331
CLM	ALPHA	332	332
CD	ALPHA	333	333

EFFECT OF 5 DEGREES SIDESLIP, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB47 CCDB48 CCDB53 CCDB54

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CL	ALPHA	334	334
CLM	ALPHA	335	335
CD	ALPHA	336	336

DATASETS PLOTTED:
CCDB47 CCDB48 CCDB53 CCDB54

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	ALPHA	337	337
CYN	ALPHA	338	338
CBL	ALPHA	339	339

DATA PLOT INDEX

SIDESLIP EFFECT AT 6 DEGREES ALPHA, UPPER ENGINE POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, PARAMETRIC STUDY (FPALFA)

DATASETS PLOTTED:
CCDB49 CCDB50

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CY	BETA	340	340
CYN	BETA	341	341
CBL	BETA	342	342
CL	BETA	343	343
CLM	BETA	344	344
CD	BETA	345	345

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, LOWER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB24 CCDB01 CCDB26

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	346	346

DATASETS PLOTTED:
CCDB25 CCDB03 CCDB27

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	347	347

DATASETS PLOTTED:
CCDB01 CCDB02 CCDB03

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	348	348

DATA PLOT INDEX

EFFECT OF HORIZONTAL TAIL INCIDENCE ON BASE DRAG, UPPER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB62 CCDB44 CCDB64

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	349	349

DATASETS PLOTTED:
CCDB63 CCDB45 CCDB65

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	350	350

DATASETS PLOTTED:
CCDB44 CCDB45 CCDB46

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	351	351

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, UPPER ENGINE POD POSITION (GEAR DOWN)

DATASETS PLOTTED:
CCDB57 CCDB58 CCDB34 CCDB35 CCDB36 CCDB37

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	/ ENDING
CDB	ALPHA	352	352

DATA PLOT INDEX

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, LOWER ENGINE POD POSITION (GEAR DOWN)

DATASETS PLOTTED:
CCDB17 CCDB18 CCDB19 CCDB28 CCDB29 CCDB30

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	353	353

EFFECT OF FLAP AND ELEVATOR ON BASE DRAG, LOWER ENGINE POD POSITION

DATASETS PLOTTED:
CCDB31 CCDB32 CCDB33

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	354	354

BASE DRAG WITH HORIZONTAL TAIL REMOVED, UPPER POD POSITION

DATASETS PLOTTED:

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING	PLOT PAGE ENDING
CDB	ALPHA	356	356

DATA PLOT INDEX

EFFECT OF 5 DEGREES SIDESLIP, UPPER POD POSITION

DATASETS PLOTTED:
CCDB47 CCDB48

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CDB	ALPHA	357	357

EFFECT OF 5 DEGREES SIDESLIP, UPPER AND LOWER POD POSITION

DEPENDENT VARIABLE VS INDEPENDENT VARIABLE, MULTIPLE DATASETS (FMALFA)

DATASETS PLOTTED:
CCDB04 CCDB05 CCDB47 CCDB48

DEPENDENT VARIABLE	INDEPENDENT VARIABLE	PLOT PAGE BEGINNING / ENDING	
CDB	ALPHA	358	358

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(UNDER CONTRACT NAS 9-14011)
"NASA", MICHOUD ASSEMBLY FACILITY 1971
NEW ORLEANS, LOUISIANA 70129